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WEEKLY WEATHER AND CROP BULLETIN

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration, National Weather Service

U.S. DEPARTMENT OF AGRICULTURE
Statistical Reporting Service and World Agricultural Outlook Board

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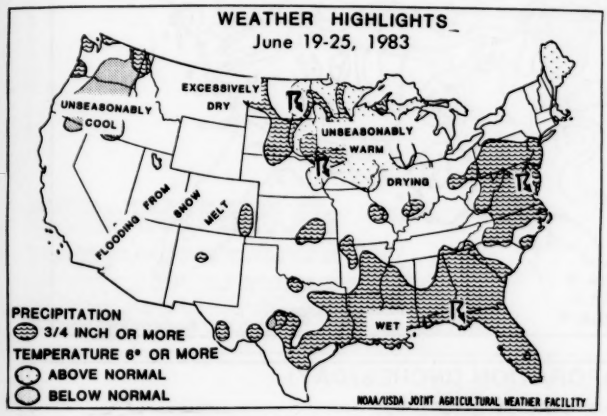
National Weather Summary

June 19 to 25



HIGHLIGHTS...Heavy rains drenched the Gulf Coast States as a trough of low pressure moved from Florida to Texas. Slow-moving cold fronts also triggered heavy rain and severe weather over parts of the mid-Atlantic region and the eastern section of the northern Plains. Conditions were unusually dry over the mid-Mississippi Valley, the Corn Belt, the Great Lakes, and parts of New England. Heavy snowmelt over the central Rockies and parts of the central Plateau sent some streams and rivers out of the banks. Water levels in the Colorado river and its tributaries were unusually high, causing some flooding even in Mexico. Temperatures were unseasonably warm from the northern and central Plains into northern New England. In contrast, temperatures were rather cool because of cloudiness and rains over the Pacific Northwest and from central Texas into Alabama.

SUNDAY...Cold fronts across the Northeast and central Plains triggered widespread showers and occasional thunderstorms. A few showers dotted the Southeast. Unseasonably warm temperatures continued to melt the western snowpack, flooding some streams and rivers. Severe weather developed in parts of Nebraska and Colorado during the afternoon.

MONDAY...Rains continued over the eastern third of the country and from the northern Rockies into the Great Lakes. Three to 5 inches of rain was dumped on the Florida Panhandle as a tropical trough of low pressure developed across the eastern Gulf of Mexico. A slow-moving cold front triggered heavy rain over parts of the mid-Atlantic seaboard, and up to 3 inches fell around the Nation's capital.

TUESDAY...Thundershowers developed over most of the Southeastern and North Central States, producing heavy rains over parts of the Florida Panhandle, the mideastern seaboard, and Minnesota. Funnel clouds, tornadoes, hail, and high winds plagued local areas in the northern Plains along a slow-moving cold front. The warm southerly flow ahead of the front sent afternoon temperatures soaring to daily record highs.

WEDNESDAY...The low-pressure system in the northern Gulf of Mexico brought widespread rains to the southeastern third of the country. Almost 2-1/2 inches fell in New Orleans, causing street flooding. The rest of the Nation was generally dry except in parts of Colorado and the Pacific Northwest. Unseasonably warm weather prevailed over the North Central and Northeastern regions as Marquette, Mich., had 88°, continuing a 3-day series of tied or broken records. A hot 97° set a new daily record for Boston, Mass.

THURSDAY...The low-pressure system continued triggering showers and thunderstorms over the Gulf Coast States. Several funnel clouds and waterspouts developed along the coast, and locally heavy rain fell inland. Showers were also scattered across the central and southern Rockies and upper Pacific Northwest. Unseasonable warmth continued over the northeastern quarter of the Nation, and a few spots set new daily record-high temperatures.

FRIDAY...Rains covered the southern portion of the Nation and the area from the upper Pacific Northwest into the northern Plains. The heaviest amounts fell along the Gulf Coast States in association with a weakening trough of low

(continued on p. 5)

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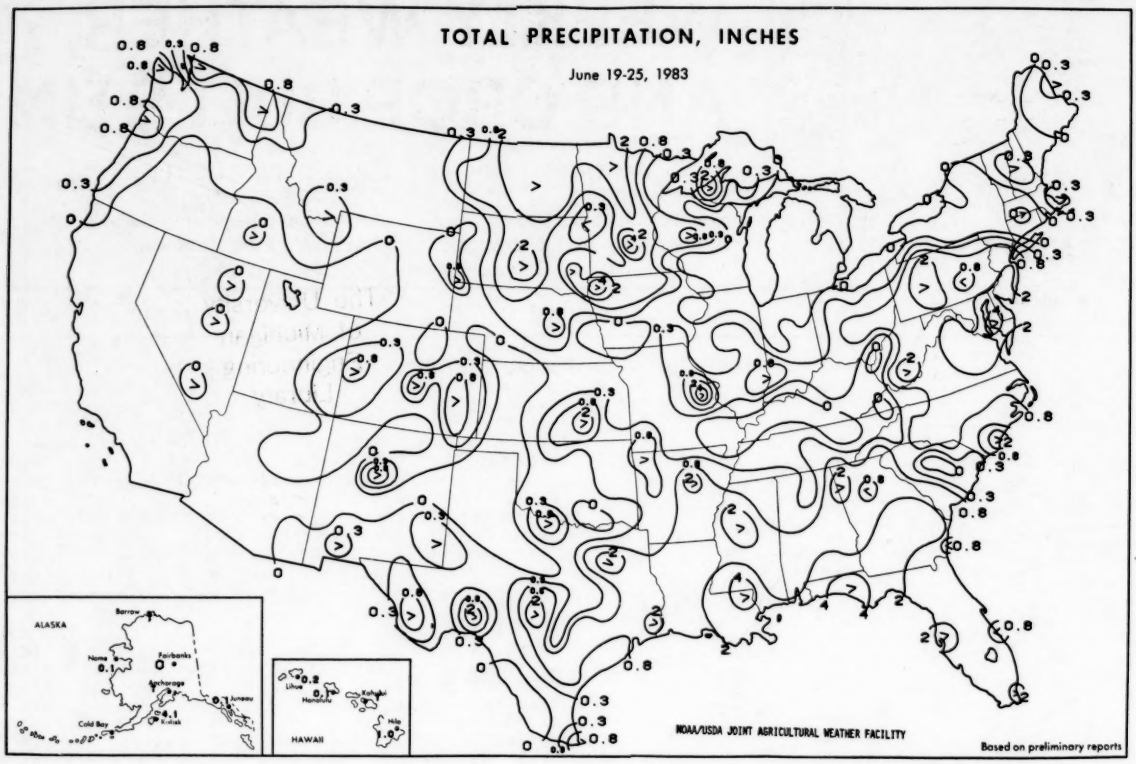
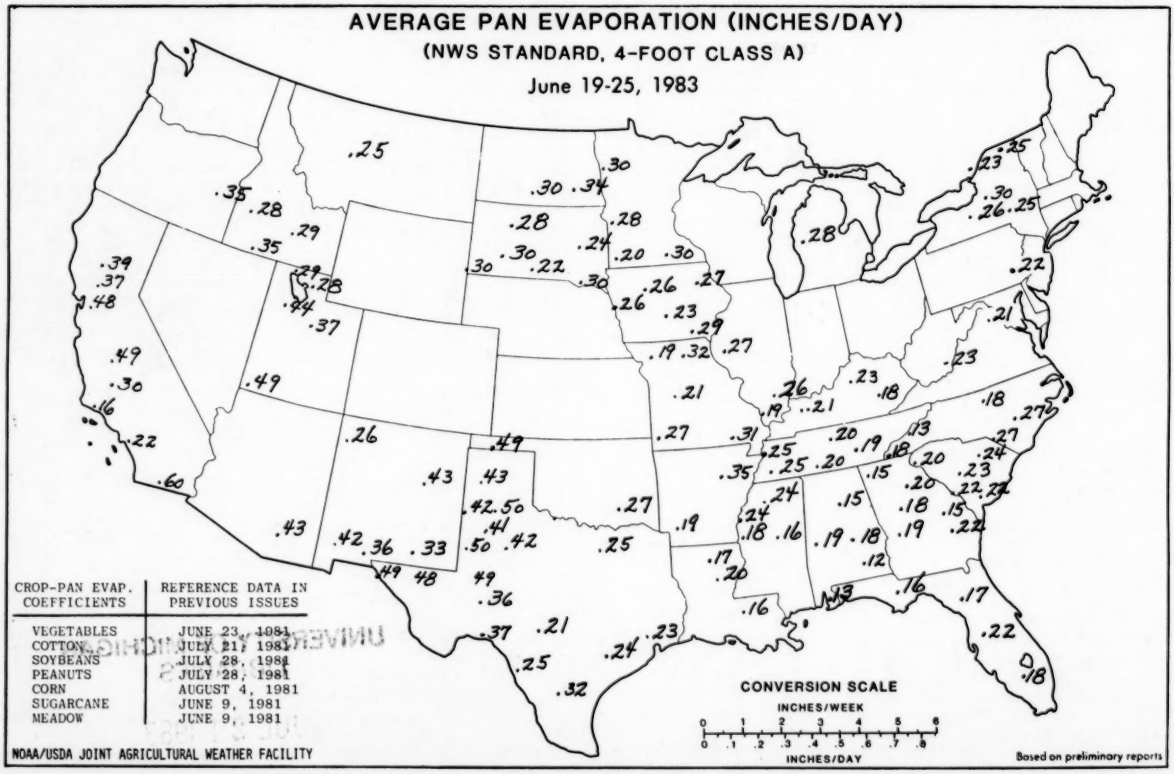
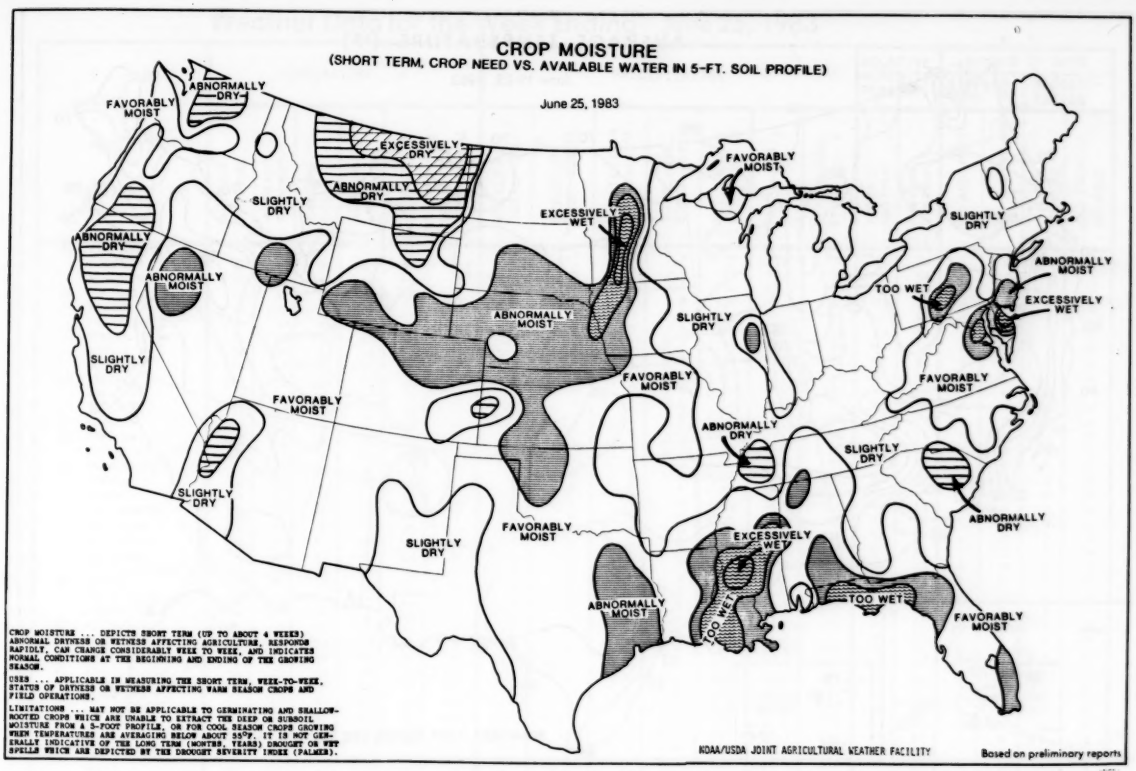
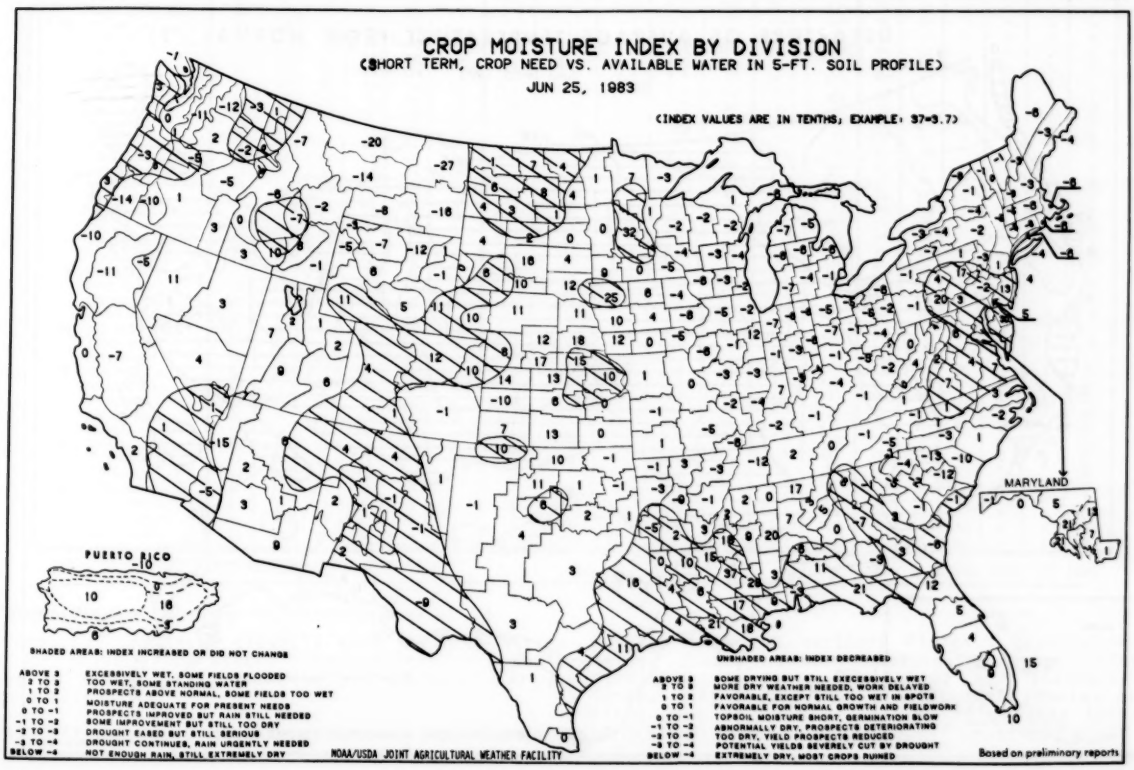
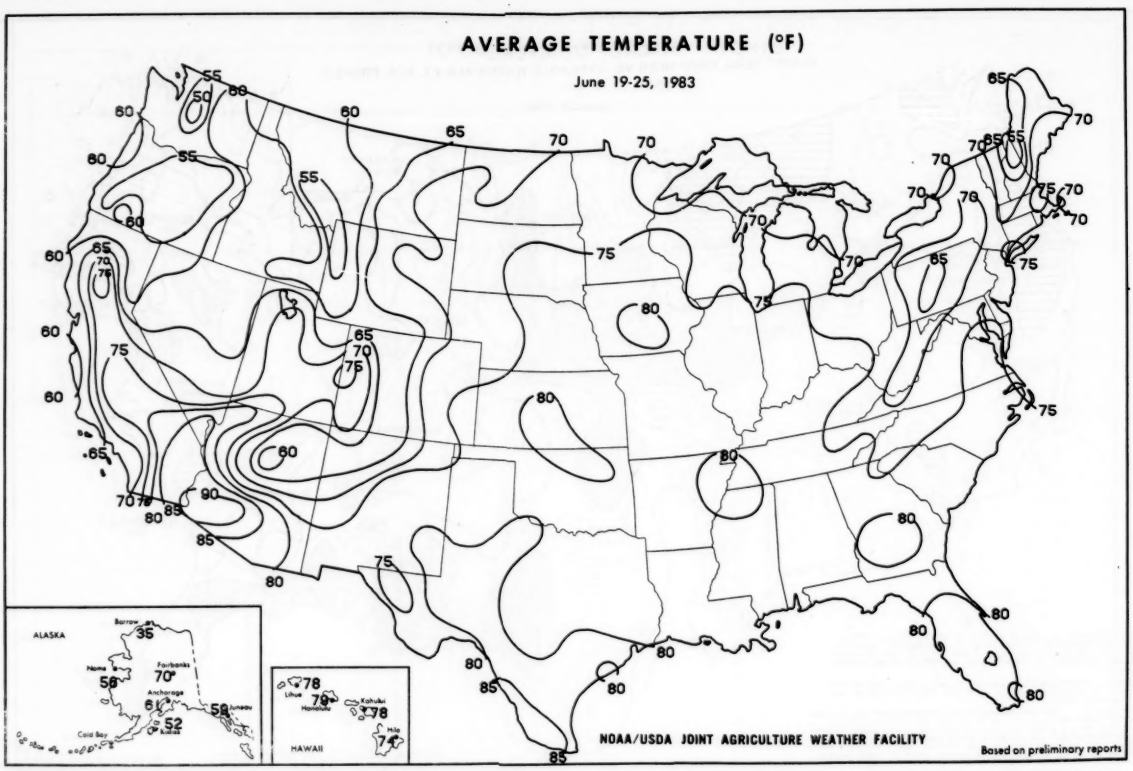
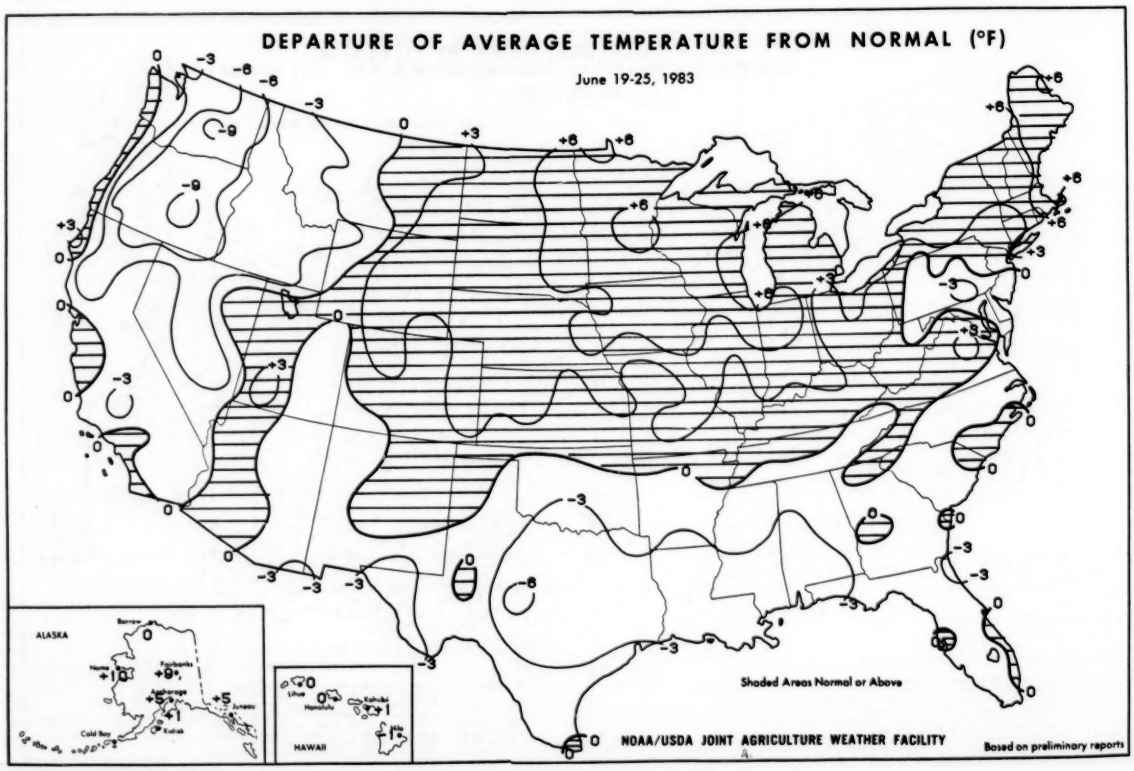

TOTAL PRECIPITATION, INCHES
June 19-25, 1983
ALASKA
HAWAII
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary reports


AVERAGE PAN EVAPORATION (INCHES/DAY)
(NWS STANDARD, 4-FOOT CLASS A)
June 19-25, 1983
CROP-PAN EVAP. COEFFICIENTS
REFERENCE DATA IN PREVIOUS ISSUES
VEGETABLES JUNE 23, 1981
COTTON JULY 21, 1981
SOYBEANS JULY 28, 1981
PEANUTS JULY 28, 1981
CORN AUGUST 4, 1981
SUGARCANE JUNE 9, 1981
MEADOW JUNE 9, 1981
CONVERSION SCALE
INCHES/WEEK
INCHES/DAY
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary reports


CROP MOISTURE
(SHORT TERM, CROP NEED VS. AVAILABLE WATER IN 5-FT. SOIL PROFILE)
June 25, 1983
FAVORABLY MOIST
ABNORMALLY DRY
EXCESSIVELY DRY
SLIGHTLY DRY
ABNORMALLY MOIST
EXCESSIVELY WET
TOO WET
CROP MOISTURE ... DEPICTS SHORT TERM (UP TO ABOUT 4 WEEKS) ABNORMAL DRYNESS OR WETNESS AFFECTING AGRICULTURE, RESPONDS RAPIDLY, CAN CHANGE CONSIDERABLY WEEK TO WEEK, AND INDICATES NORMAL CONDITIONS AT THE BEGINNING AND ENDING OF THE GROWING SEASON.
USES ... APPLICABLE IN MEASURING THE SHORT TERM, WEEK-TO-WEEK, STATUS OF DRYNESS OR WETNESS AFFECTING WARM SEASON CROPS AND FIELD OPERATIONS.
LIMITATIONS ... MAY NOT BE APPLICABLE TO GERMINATING AND SHALLOW-ROOTED CROPS WHICH ARE UNABLE TO EXTRACT THE DEEP OR SUBSOIL MOISTURE FROM A 5-FOOT PROFILE, OR FOR COOL SEASON CROPS GROWING WHEN TEMPERATURES ARE AVERAGING BELOW ABOUT 55°F. IT IS NOT GENERALLY INDICATIVE OF THE LONG TERM (MONTHS, YEARS) DROUGHT OR WET SPELLS WHICH ARE DEPICTED BY THE DROUGHT SEVERITY INDEX (PALMER).
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary reports


CROP MOISTURE INDEX BY DIVISION
(SHORT TERM, CROP NEED VS. AVAILABLE WATER IN 5-FT. SOIL PROFILE)
JUN 25, 1983
(INDEX VALUES ARE IN TENTHS; EXAMPLE: 37=3.7)
MARYLAND
PUERTO RICO
SHADED AREAS: INDEX INCREASED OR DID NOT CHANGE
ABOVE 3 EXCESSIVELY WET, SOME FIELDS FLOODED
2 TO 3 TOO WET, SOME STANDING WATER
1 TO 2 PROSPECTS ABOVE NORMAL, SOME FIELDS TOO WET
0 TO 1 MOISTURE ADEQUATE FOR PRESENT NEEDS
0 TO -1 PROSPECTS IMPROVED BUT RAIN STILL NEEDED
-1 TO -2 SOME IMPROVEMENT BUT STILL TOO DRY
-2 TO -3 DROUGHT EASED BUT STILL SERIOUS
-3 TO -4 DROUGHT CONTINUES, RAIN URGENTLY NEEDED
BELOW -4 NOT ENOUGH RAIN, STILL EXTREMELY DRY
UNSHADED AREAS: INDEX DECREASED
ABOVE 3 SOME DRYING BUT STILL EXCESSIVELY WET
2 TO 3 MORE DRY WEATHER NEEDED, WORK DELAYED
1 TO 2 FAVORABLE, EXCEPT STILL TOO WET IN SPOTS
0 TO 1 FAVORABLE FOR NORMAL GROWTH AND FIELDWORK
0 TO -1 TOPSOIL MOISTURE SHORT, GERMINATION SLOW
-1 TO -2 ABNORMALLY DRY, PROSPECTS DETERIORATING
-2 TO -3 TOO DRY, YIELD PROSPECTS REDUCED
-3 TO -4 POTENTIAL YIELDS SEVERELY CUT BY DROUGHT
BELOW -4 EXTREMELY DRY, MOST CROPS RUINED
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary reports


AVERAGE TEMPERATURE (°F)
June 19-25, 1983
ALASKA
HAWAII
NOAA/USDA JOINT AGRICULTURE WEATHER FACILITY
Based on preliminary reports


DEPARTURE OF AVERAGE TEMPERATURE FROM NORMAL (°F)
June 19-25, 1983
ALASKA
HAWAII
Shaded Areas Normal or Above
NOAA/USDA JOINT AGRICULTURE WEATHER FACILITY
Based on preliminary reports

Weather Data for the Week Ending June 25, 1983

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																TEMPERATURE °F		PRECIPITATION	
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE May 29	PCT. NORMAL SINCE May 29	TOTAL, IN., SINCE Jan. 1	PCT. NORMAL SINCE Jan. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	85	68	90	65	77	-1	.2	- .7	.1	1.9	59	35.8	122	92	60	1	0	5	0
MOBILE	84	71	88	69	77	-4	1.7	.4	.7	3.9	87	42.6	136	90	64	0	0	4	2
MONTGOMERY	85	69	90	67	77	-3	1.3	.5	.9	4.1	132	41.7	169	94	60	1	0	4	1
AK ANCHORAGE	70	52	73	46	61	5	T	- .3	T	.8	100	3.3	80	75	38	0	0	0	0
BARROW	41	30	50	28	35	0	T	- .1	T	.1	33	.4	25	93	67	0	6	1	0
FAIRBANKS	84	57	91	53	70	9	0	- .4	0	.3	25	1.1	32	65	21	1	0	0	0
JUNEAU	68	50	79	48	59	5	.2	- .5	.1	2.2	79	16.0	80	95	59	0	0	2	0
KODIAK	54	50	58	49	52	1	4.1	3.5	1.4	7.5	214	45.5	155	98	84	0	0	7	3
NOME	70	43	76	35	56	10	.1	- .3	.1	.5	45	7.3	48	81	36	0	0	1	0
AZ PHOENIX	105	78	107	74	91	3	0	- .1	0	0	0	5.2	179	26	7	7	0	0	0
PRESCOTT	83	56	84	53	70	1	0	- .2	0	0	0	4.9	86	54	19	0	0	0	0
TUCSON	99	67	103	63	83	-1	0	- .1	0	0	0	4.2	145	27	7	7	0	0	0
YUMA	105	76	108	74	91	2	0	0	0	0	+100	1.3	144	38	11	7	0	0	0
AR FORT SMITH	88	67	90	65	78	-1	.7	- .1	.6	2.0	56	14.9	70	92	49	1	0	2	1
LITTLE ROCK	88	69	90	67	78	-1	1.0	.3	.7	1.3	41	23.2	87	94	57	3	0	5	1
CA BAKERSFIELD	91	62	96	58	77	-3	0	0	0	0	+100	6.9	192	62	22	6	0	0	0
EUREKA	64	52	67	49	58	3	0	- .1	0	.5	71	35.6	158	90	65	0	0	0	0
FRESNO	93	61	95	58	77	0	0	0	0	0	+100	16.3	243	59	18	7	0	0	0
LOS ANGELES	73	62	74	61	68	1	0	0	0	0	+100	20.6	261	83	56	0	0	0	0
RED BLUFF	90	59	97	56	75	-3	0	- .1	0	.2	50	29.3	236	57	17	4	0	0	0
SACRAMENTO	88	54	93	50	71	-2	0	0	0	.4	400	23.7	230	82	22	1	0	0	0
SAN DIEGO	73	65	75	64	69	2	0	0	0	0	+100	14.2	233	78	60	0	0	0	0
SAN FRANCISCO	70	50	75	49	60	-1	T	0	T	0	0	25.4	213	83	47	0	0	0	0
CO DENVER	85	57	93	54	71	2	T	- .3	T	2.0	125	11.9	147	70	24	2	0	0	0
GRAND JUNCTION	90	61	95	60	76	2	.8	.8	.5	1.7	425	6.9	177	64	26	5	0	3	1
PUEBLO	94	55	99	49	75	1	T	- .3	T	1.9	190	7.4	151	74	17	5	0	1	0
CT BRIDGEPORT	82	62	90	57	72	2	T	- .7	T	2.8	100	32.5	172	86	42	1	0	0	0
HARTFORD	87	59	93	54	73	3	T	- .8	T	2.0	65	30.9	149	78	33	3	0	1	0
DC WASHINGTON	84	68	89	64	76	0	1.8	1.1	1.5	5.5	177	25.9	145	86	55	0	0	3	1
FL APALACHICOLA	86	72	88	69	79	-2	3.0	1.8	2.2	6.1	145	33.2	157	90	70	0	0	4	2
DAYTONA BEACH	85	69	89	65	77	-3	1.8	.2	1.3	9.8	169	32.5	170	97	69	0	0	3	1
JACKSONVILLE	86	69	89	66	77	-3	1.5	.2	1.0	5.3	108	30.6	135	100	69	0	0	4	1
KEY WEST	87	78	88	76	82	-1	.7	- .5	.5	6.1	127	35.7	251	86	67	0	0	4	1
MIAMI	89	75	92	72	82	1	1.6	- .6	1.2	10.1	117	28.3	120	93	63	3	0	4	1
ORLANDO	90	73	92	69	81	0	1.5	- .3	.3	7.9	122	27.1	130	97	56	5	0	5	1
TALLAHASSEE	86	70	91	67	78	-2	3.9	2.2	1.5	8.2	139	42.9	147	97	65	1	0	6	3
TAMPA	88	75	90	71	82	0	2.7	1.7	1.8	8.9	189	28.0	151	91	61	1	0	4	2
WEST PALM BEACH	89	76	92	73	82	1	1.7	- .2	.8	12.9	172	40.5	168	94	67	3	0	6	2
GA ATLANTA	83	68	90	66	75	-2	.6	- .2	.4	1.8	58	22.5	88	94	58	1	0	2	0
AUGUSTA	88	67	93	64	77	-1	1.0	0	.8	4.3	119	28.1	127	84	48	2	0	2	1
MACON	88	72	93	69	80	0	2.3	1.4	1.6	5.9	174	30.6	128	91	58	4	0	5	2
SAVANNAH	87	71	94	69	79	0	1.9	.5	1.5	2.7	53	29.1	129	90	53	1	0	2	1
HI HILO	81	67	82	66	74	-1	1.0	- .5	.5	3.6	61	26.8	42	88	62	0	0	6	1
HONOLULU	87	72	88	70	79	0	.1	0	T	.2	40	1.7	13	85	49	0	0	3	0
KAHULUI	86	71	87	69	78	1	T	0	T	.1	50	2.9	27	79	53	0	0	0	0
LIHUE	83	73	84	72	78	0	.2	- .1	.1	.8	50	5.6	25	79	57	0	0	3	0
ID BOISE	80	48	94	42	64	-4	0	- .2	0	.1	11	10.2	144	65	19	2	0	0	0
LEWISTON	76	50	88	47	63	-4	.1	- .2	.1	1.1	79	7.3	109	82	32	0	0	1	0
POCATELLO	76	47	88	39	62	-3	.1	- .1	.1	1.1	100	8.6	137	65	25	0	0	1	0
IL CHICAGO	89	62	94	59	75	5	T	- 1.0	T	3.1	84	22.5	140	84	38	5	0	0	0
MOLINE	91	67	95	62	79	6	T	- 1.0	T	1.6	40	13.2	75	90	46	5	0	0	0
PEORIA	88	67	93	62	78	5	.4	- .5	.4	2.3	62	20.2	118	84	49	3	0	1	0
QUINCY	89	68	93	65	78	4	T	- .9	T	1.1	31	15.4	87	88	48	5	0	1	0
ROCKFORD	90	66	93	62	78	7	T	- 1.1	T	1.1	26	14.3	80	75	40	5	0	0	0
SPRINGFIELD	91	66	96	64	79	4	.2	- .7	.2	1.4	41	15.9	95	96	48	5	0	1	0
IN EVANSVILLE	91	67	98	63	79	3	T	- .8	T	3.5	106	29.7	130	87	40	4	0	0	0
FORT WAYNE	88	66	93	62	77	6	0	- .8	0	2.0	59	14.3	81	86	41	3	0	0	0
INDIANAPOLIS	88	66	93	65	77	4	T	- 1.0	T	2.5	69	16.6	85	92	46	3	0	0	0
SOUTH BEND	89	66	92	63	77	7	0	- 1.0	0	1.7	49	15.4	88	76	37	5	0	0	0
IA DES MOINES	91	71	96	64	81	8	0	- 1.0	0	2.1	53	16.6	108	83	47	5	0	0	0
SIOUX CITY	85	69	89	60	77	4	.4	- .5	.4	3.5	97	16.1	132	81	56	0	0	1	0
WATERLOO	88	67	93	58	77	7	.2	- .9	.2	2.2	54	16.0	103	85	47	5	0	1	0
KS CONCORDIA	88	66	91	64	77	2	.1	- .9	.1	3.4	83	14.6	112	94	53	2	0	1	0
DODGE CITY	90	69	94	65	80	3	T	- .7	T	5.2	179	15.3	153	80	40	5	0	1	0
GOODLAND	88	62	93	55	75	3	.3	- .4	.3	1.9	70	9.3	112	83	38	2	0	1	0
TOPEKA	91	69	92	67	80	5	.2	- 1.0	.2	3.3	70	20.3	131	92	51	6	0	1	0
WICHITA	88	68	93	66	78	0	1.4	.5	.9	5.1	131	20.0	152	88	50	4	0	2	2
KY BOWLING GREEN	87	66	93	61	76	0	T	- 1.1	T	2.3	55	30.4	111	99	55	2	0	0	0
LEXINGTON	87	67	90	65	77	3	.4	- .6	.4	3.0	77	23.1	97	89	44	2	0	1	0
LOUISVILLE	87	67	91	64	77	2	.3	- .6	.3	3.8	109	25.8	110	89	46	2	0	1	0
LA ALEXANDRIA	87	70	90	68	79	-4	1.1	.2	.6	2.4	63	30.8	104	88	61	1	0	4	1
BATON ROUGE	85	70	87	67	77	-4	3.3	2.5	1.2	8.5	304	43.5	162	94	63	0	0	6	3
LAKE CHARLES	86	71	88	69	79	-3	1.2	.2	.9	2.4	62	27.3	111	99	66	0	0	5	1
NEW ORLEANS	85	71	88	68	78	-3	3.9	2.8	2.4	5.6	133	44.7	160	94	66	0	0	7	3

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

+100 = NORMAL & ACTUAL NEAR THE SAME

National Weather Summary (continued from p. 1)

pressure. Continued snowmelt kept Colorado rivers at or above flood stage. Temperatures were quite hot in South Texas, reaching the century mark at some sites.

SATURDAY...Numerous thunderstorms covered the gulf coast and from central portions of the Plains and Rockies into the northern Plains. Locally heavy rains caused some flooding. Funnel clouds developed in parts of Kansas and southeastern Texas. Light snow, an unusual event during this first week of summer, fell in the higher terrain of central Vermont. The Midwest continued dry.

Weather Data for the Week Ending June 25, 1983

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																TEMPERATURE °F		PRECIPITATION	
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE May 29	PCT. NORMAL SINCE May 29	TOTAL, IN., SINCE Jan. 1	PCT. NORMAL SINCE Jan. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
	SHREVEPORT	86	70	89	68	78	-3	.7	- .1	.3	5.4	159	29.4	123	95	59	0	0	4	0
ME	CARIBOU	82	55	93	41	69	6	0	- .8	0	1.6	55	17.6	119	77	27	3	0	0	0
	PORTLAND	85	57	93	50	71	7	.1	- .6	.1	2.5	86	32.3	159	89	35	2	0	1	0
MD	BALTIMORE	82	64	89	57	73	-1	3.4	2.5	2.0	5.8	166	31.0	161	94	57	0	0	3	2
	SALISBURY	82	62	86	55	72	-1	2.3	1.4	1.0	4.3	130	26.3	128	100	66	0	0	4	3
MA	BOSTON	87	68	97	57	77	8	.1	- .5	.1	1.4	52	29.9	144	78	38	3	0	1	0
	CHATHAM	76	59	86	53	68	4	.6	0	.6	1.7	63	32.5	146	86	65	0	0	1	1
MI	ALPENA	85	50	91	45	68	5	0	- .8	0	2.2	73	17.7	135	98	36	2	0	0	0
	DETROIT	85	60	92	57	72	3	0	- .8	0	1.8	58	14.6	97	81	36	1	0	0	0
	FLINT	84	58	91	53	71	4	0	- .8	0	1.2	39	12.8	88	92	41	1	0	0	0
	GRAND RAPIDS	88	58	91	55	73	4	0	- .9	0	1.7	47	16.6	104	90	38	2	0	0	0
	HOUGHTON LAKE	85	52	88	45	69	4	T	- .8	T	1.3	45	12.7	104	88	31	0	0	0	0
	LANSING	86	58	91	53	72	3	0	- .8	0	1.0	32	13.7	94	87	37	1	0	0	0
	MARQUETTE	82	51	88	40	67	5	.2	- .7	.1	5.2	141	21.8	127	96	41	0	0	3	0
	MUSKEGON	86	59	89	55	72	5	0	- .6	0	1.7	68	12.5	85	86	37	0	0	0	0
	SAULT STE. MARIE	83	51	88	44	67	7	0	- .8	0	3.1	100	14.7	108	90	41	0	0	0	0
MN	ALEXANDRIA	82	64	90	57	73	6	.1	- .9	.1	2.8	74	6.8	61	90	53	1	0	1	0
	DULUTH	77	56	88	50	67	5	T	- 1.0	T	1.4	39	9.4	76	94	60	0	0	1	0
	INT'L FALLS	82	59	90	52	71	8	1.2	.3	1.1	4.4	133	8.2	83	94	50	1	0	2	1
	MINNEAPOLIS	85	65	91	61	75	5	1.4	.4	.7	4.5	118	19.3	166	95	61	1	0	3	2
	ROCHESTER	86	64	92	58	75	6	.2	- .8	.2	1.2	31	11.4	91	94	53	2	0	1	0
MS	GREENWOOD	87	71	90	69	79	-2	2.8	2.0	1.3	6.6	206	41.4	143	94	63	1	0	5	2
	JACKSON	85	69	89	65	77	-3	1.5	.8	.4	3.0	107	48.4	172	98	68	0	0	7	0
	MERIDIAN	84	68	88	65	76	-4	1.4	.6	1.1	3.8	123	42.2	150	100	68	0	0	5	1
MO	CAPE GIRARDEAU	90	69	94	66	79	--	0	- .8	0	1.0	29	24.6	106	95	45	3	0	0	0
	COLUMBIA	87	67	89	64	77	2	.3	- .5	.3	2.7	77	20.1	114	98	59	0	0	1	0
	KANSAS CITY	87	67	89	64	77	2	T	- 1.1	T	4.2	98	19.8	119	96	54	0	0	2	0
	SAINT LOUIS	89	70	93	67	80	3	.7	- .3	.5	4.1	114	22.8	132	94	48	4	0	2	1
	SPRINGFIELD	90	67	91	63	79	3	.1	- 1.0	.1	1.7	40	19.7	101	86	46	5	0	2	0
MT	BILLINGS	80	50	89	44	65	-1	.1	- .3	.1	.8	38	4.8	56	79	26	0	0	1	0
	GLASGOW	81	54	94	46	67	2	T	- .6	T	.6	25	3.1	51	61	24	2	0	1	0
	GREAT FALLS	74	47	87	44	60	-3	.1	- .5	.1	1.8	67	5.4	61	72	29	0	0	2	0
	HAVRE	75	48	90	45	62	-3	.2	- .3	.2	1.1	55	5.6	89	76	35	1	0	1	0
	HELENA	74	46	91	39	60	-2	.1	- .4	.1	1.7	85	4.4	75	72	27	1	0	1	0
	KALISPELL	69	41	82	32	55	-5	.3	- .2	.2	2.2	105	8.8	109	94	37	0	1	2	0
	MILES CITY	84	57	100	46	71	2	.2	- .4	.2	1.6	59	4.1	53	73	21	2	0	2	0
	MISSOULA	71	42	83	38	57	-5	.1	- .4	.1	1.2	63	7.3	106	88	33	0	0	2	0
NE	GRAND ISLAND	88	69	93	66	78	5	.7	- .2	.5	5.2	141	15.5	127	85	52	4	0	2	1
	LINCOLN	91	69	94	66	80	6	T	- .9	T	4.6	128	16.1	126	92	49	6	0	0	0
	NORFOLK	88	69	93	64	79	6	.2	- .8	.1	4.9	123	15.4	124	86	50	4	0	2	0
	NORTH PLATTE	85	64	92	62	74	4	T	- .8	T	2.0	57	9.3	90	89	47	2	0	2	0
	OMAHA	87	71	91	64	79	6	T	- .9	T	4.2	105	18.6	132	85	57	2	0	0	0
	SCOTTSBLUFF	87	60	93	54	74	4	.1	- .6	T	1.3	45	9.8	120	81	32	3	0	2	0
	VALENTINE	87	64	93	60	75	5	1.2	.5	1.0	4.2	150	11.9	132	81	42	3	0	2	1
NV	ELY	81	41	83	36	61	0	0	- .2	0	2.3	288	8.6	176	67	17	0	0	0	0
	LAS VEGAS	99	71	101	70	85	0	0	0	0	0	+100	2.4	133	22	8	7	0	0	0
	RENO	84	41	90	36	63	-2	0	- .1	0	.5	125	6.7	168	73	17	1	0	0	0
	WINNEMUCCA	82	44	90	37	63	-3	T	- .2	T	1.2	133	6.0	122	60	15	2	0	0	0
NH	CONCORD	85	52	91	49	69	2	.5	- .2	.5	3.8	136	26.7	162	94	31	2	0	1	1
NJ	ATLANTIC CITY	82	60	91	53	71	0	1.8	1.1	1.0	3.3	127	26.6	133	92	50	1	0	3	2
NM	ALBUQUERQUE	92	60	99	53	76	0	1.2	1.0	1.0	1.3	260	4.0	154	47	16	5	0	3	1
	CLOVIS	92	63	98	62	78	2	T	- .6	T	2.2	92	5.3	79	67	19	4	0	0	0
	ROSWELL	94	66	103	61	80	-1	.7	.4	.5	.9	100	2.9	100	59	21	4	0	2	0
NY	ALBANY	83	59	90	52	71	3	0	- .8	0	1.7	55	26.4	164	96	42	1	0	0	0
	BINGHAMTON	80	60	85	51	70	4	0	- .8	0	3.1	94	21.8	131	80	40	0	0	0	0
	BUFFALO	84	61	90	56	73	5	0	- .6	0	1.8	75	13.1	78	77	34	1	0	0	0
	NEW YORK	83	66	91	63	75	2	.4	- .4	.3	2.2	73	31.6	159	79	47	2	0	3	0
	ROCHESTER	82	59	87	54	71	2	0	- .6	0	2.4	92	14.0	94	90	38	0	0	0	0
	SYRACUSE	83	58	91	50	71	3	T	- .9	T	1.4	42	15.6	87	94	41	1	0	0	0
NC	ASHEVILLE	83	61	88	55	72	1	.1	- .9	.1	2.2	55	26.3	113	100	56	0	0	2	0
	CHARLOTTE	85	66	91	62	75	-1	1.4	.5	.7	3.4	103	22.3	103	86	49	1	0	2	2
	GREENSBORO	83	63	89	59	73	-1	1.5	.5	1.4	4.7	124	24.2	117	92	52	0	0	2	1
	HATTERAS	81	68	85	64	74	-1	1.0	0	1.0	3.9	100	35.1	153	91	64	0	0	2	1
	NEW BERN	86	68	91	65	77	0	.4	- .8	.3	4.0	85	30.0	131	90	51	1	0	2	0
	RALEIGH	85	63	89	58	74	-1	.9	0	.8	2.9	83	27.9	139	93	54	0	0	1	1
	WILMINGTON	89	69	94	66	79	1	2.8	1.4	1.7	5.4	108	30.1	133	87	50	1	0	3	2
ND	BISMARCK	81	59	90	52	70	4	2.2	1.5	1.4	2.3	82	6.6	80	88	45	1	0	4	2
	FARGO	85	64	93	55	75	8	.6	- .2	.3	1.6	57	6.7	80	89	48	2	0	4	0
	GRAND FORKS	82	63	89	56	72	7	1.7	1.0	1.0	2.9	116	7.3	97	90	58	0	0	4	1
	WILLISTON	83	53	98	46	68	3	.7	.1	.7	.9	38	4.2	63	80	31	1	0	1	1
OH	AKRON-CANTON	80	60	88	55	70	1	.3	- .5	.3	1.1	35	17.3	97	89	48	0	0	2	0
	CINCINNATI	88	65	94	62	77	4	.1	- .8	.1	1.1	31	19.5	92	89	43	3	0	1	0
	CLEVELAND	82	63	88	57	72	3	.1	- .8	.1	1.2	36	14.6	83	87	42	0	0	1	0
	COLUMBUS	83	61	88	58	72	0	1.9	.9	1.9	3.5	92	17.2	90	93	51	0	0	1	1

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

Weather Data for the Week Ending June 25, 1983

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																TEMPERATURE °F		PRECIPITATION	
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE May 29	PCT. NORMAL SINCE May 29	TOTAL, IN., SINCE Jan. 1	PCT. NORMAL SINCE Jan. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
	DAYTON	83	64	91	60	73	1	.2	- .7	.2	3.3	89	17.0	91	84	44	1	0	1	0
	TOLEDO	84	58	92	55	71	1	T	- .8	T	1.4	42	12.5	82	89	43	1	0	0	0
	YOUNGSTOWN	82	57	87	50	70	2	.1	- .8	.1	1.0	29	14.7	80	81	42	0	0	1	0
OK	OKLAHOMA CITY	88	68	90	67	78	-1	.1	- .7	.1	2.6	67	17.4	107	91	49	1	0	1	0
	TULSA	91	73	93	69	82	3	.4	- .6	.4	1.0	23	19.0	99	89	49	6	0	2	0
OR	ASTORIA	69	52	73	46	60	3	1.6	1.0	.8	4.4	176	42.8	125	91	56	0	0	5	1
	BURNS	70	38	79	35	54	-9	0	- .2	0	.8	100	9.6	171	80	35	0	0	0	0
	MEDFORD	77	48	85	43	63	-4	0	- .1	0	.6	100	12.3	122	80	28	0	0	0	0
	PENDLETON	71	48	81	44	60	-9	T	- .1	T	.4	67	7.0	113	76	31	0	0	1	0
	PORTLAND	69	53	76	50	61	-2	.5	.2	.2	1.5	107	25.5	133	88	49	0	0	5	0
	SALEM	70	48	76	40	59	-3	.3	.1	.1	2.0	167	31.4	147	85	47	0	0	4	0
PA	ALLENTOWN	81	61	89	56	71	0	1.7	.9	1.3	4.4	138	27.0	134	86	47	0	0	3	1
	ERIE	81	61	85	58	71	4	.2	- .7	.2	1.8	51	14.3	83	84	46	0	0	1	0
	HARRISBURG	79	59	88	54	69	-4	.6	- .2	.5	2.8	82	26.2	142	89	51	0	0	3	0
	PHILADELPHIA	81	62	89	56	72	-2	1.0	0	.4	1.7	46	29.5	153	91	49	0	0	3	0
	PITTSBURGH	79	61	86	57	70	0	1.2	.5	1.2	3.0	97	18.4	99	77	46	0	0	2	1
	SCRANTON	80	59	85	51	69	0	.4	- .4	.3	3.7	116	21.9	139	81	47	0	0	3	0
RI	PROVIDENCE	87	64	92	56	75	7	.1	- .5	.1	3.3	122	36.4	171	74	32	2	0	1	0
SC	CHARLESTON	86	70	95	67	78	-1	.1	- 1.6	T	1.0	17	27.8	119	93	54	1	0	2	0
	COLUMBIA	90	66	97	60	78	-1	T	- 1.1	T	2.1	51	24.9	108	90	40	4	0	0	0
	FLORENCE	88	68	96	65	78	-1	.6	- .6	.6	4.9	117	29.0	146	97	49	1	0	1	1
	GREENVILLE	84	66	92	62	75	-1	.6	- .6	.3	2.5	56	27.2	102	95	56	1	0	3	0
SD	ABERDEEN	85	64	92	55	74	6	.5	- .3	.3	3.5	113	8.8	95	93	54	1	0	2	0
	HURON	88	65	94	57	77	7	.8	0	.6	3.0	94	8.0	83	97	52	3	0	2	1
	RAPID CITY	84	59	92	51	72	5	.1	- .7	.1	.8	25	5.3	58	83	44	2	0	2	0
	SIOUX FALLS	85	66	90	60	76	5	1.6	.8	1.6	4.5	129	14.4	120	95	65	1	0	1	1
TN	CHATTANOOGA	85	67	91	65	76	0	1.2	.4	.7	2.6	84	26.1	95	87	50	1	0	4	1
	KNOXVILLE	86	64	90	61	75	0	T	- .9	T	2.5	71	20.4	80	99	53	1	0	0	0
	MEMPHIS	89	71	91	67	80	0	.5	- .3	.2	2.1	60	29.1	101	96	52	3	0	3	0
	NASHVILLE	88	68	92	65	78	1	.3	- .6	.3	3.3	94	29.7	113	94	50	2	0	2	0
TX	ABILENE	90	68	92	67	79	-3	T	- .6	T	4.0	154	9.3	85	77	35	6	0	0	0
	AMARILLO	91	64	97	58	77	1	0	- .8	0	2.1	64	9.4	109	86	28	4	0	0	0
	AUSTIN	89	71	90	69	80	-3	.8	.2	.8	4.0	129	20.3	120	88	48	5	0	3	1
	BEAUMONT	84	75	87	73	79	-3	1.4	.4	.5	7.4	200	33.2	144	98	71	0	0	5	0
	BROWNSVILLE	93	73	95	72	83	0	.8	.2	.5	2.6	104	7.5	80	91	48	7	0	1	0
	CORPUS CHRISTI	92	72	94	70	82	-2	.3	- .4	.3	1.9	59	11.8	94	91	52	7	0	1	0
	DEL RIO	95	72	97	66	83	-2	.1	- .3	.1	1.0	63	5.0	66	83	40	6	0	1	0
	EL PASO	96	62	103	56	79	-3	.1	- .1	.1	.2	40	3.1	163	58	15	6	0	2	0
	FORT WORTH	89	71	91	68	80	-4	.1	- .5	.1	3.0	111	16.5	97	87	44	3	0	2	0
	GALVESTON	86	76	88	74	81	-1	1.3	.5	1.2	3.1	94	15.5	91	87	66	0	0	3	1
	HOUSTON	87	71	89	69	79	-3	1.3	.4	1.0	5.2	130	22.4	100	96	60	0	0	6	1
	LUBBOCK	94	63	100	59	79	0	0	- .6	0	1.3	50	6.9	86	85	26	5	0	0	0
	MIDLAND	96	67	103	65	82	1	.2	- .1	.2	.5	36	2.6	45	80	25	6	0	1	0
	SAN ANGELO	89	65	94	62	77	-6	.1	- .3	.1	3.3	174	8.0	93	96	45	4	0	2	0
	SAN ANTONIO	90	69	92	67	80	-3	.3	- .4	.2	1.4	47	12.8	93	85	43	6	0	2	0
	VICTORIA	90	73	92	71	81	-2	.3	- .8	.1	3.0	67	14.7	88	96	56	4	0	3	0
	WACO	91	69	94	68	80	-3	T	- .5	T	2.4	89	12.5	71	90	48	5	0	1	0
	WICHITA FALLS	91	67	94	65	79	-3	1.1	.5	1.1	4.5	155	14.4	103	92	43	6	0	1	1
UT	BLANDING	81	52	89	51	66	-3	.6	.5	.5	.6	200	6.4	156	61	27	0	0	3	1
	CEDAR CITY	86	55	87	51	71	2	0	- .1	0	.5	100	7.4	157	36	11	0	0	0	0
	SALT LAKE CITY	84	58	91	51	71	1	0	- .2	0	1.0	100	11.6	135	68	22	2	0	0	0
VT	BURLINGTON	84	57	91	50	70	4	.2	- .7	.2	1.8	53	21.5	149	84	31	2	0	2	0
VA	NORFOLK	82	66	88	62	74	-2	1.7	.9	1.1	3.7	112	26.2	131	91	54	0	0	2	2
	RICHMOND	87	68	93	63	78	3	3.3	2.4	3.0	5.4	164	24.7	132	91	54	2	0	3	1
	ROANOKE	84	62	90	56	73	0	.9	.1	.9	1.8	58	24.7	131	94	49	1	0	2	1
WA	COLVILLE	68	46	76	40	57	-6	.8	.5	.4	2.5	179	14.5	161	82	57	0	0	3	0
	QUILLAYUTE	65	48	69	41	56	0	1.1	.5	.3	4.0	133	58.3	112	97	59	0	0	6	0
	SEATTLE-TACOMA	66	51	71	49	59	-3	.5	.2	.2	1.9	127	20.5	108	92	50	0	0	4	0
	SPOKANE	70	47	79	45	58	-5	1.1	.9	.8	1.8	164	9.5	102	87	37	0	0	2	1
	YAKIMA	75	44	78	39	59	-7	T	- .1	T	.2	50	6.6	178	73	28	0	0	1	0
WV	BECKLEY	76	59	80	55	68	0	2.5	1.6	2.5	4.9	144	15.8	74	96	55	0	0	1	1
	CHARLESTON	85	62	91	58	74	1	.2	- .6	.2	1.9	66	18.6	92	94	45	1	0	2	0
	HUNTINGTON	86	64	91	59	75	2	0	- .8	0	1.5	47	17.5	86	87	47	1	0	0	0
	PARKERSBURG	83	64	88	61	74	2	T	- 1.0	T	1.5	37	20.1	92	86	49	0	0	1	0
WI	GREEN BAY	83	59	88	52	71	5	0	- .8	0	1.1	38	10.9	89	85	45	0	0	0	0
	LA CROSSE	90	66	97	59	78	8	0	- 1.0	0	.6	16	10.2	72	88	43	4	0	0	0
	MADISON	89	59	92	47	74	6	0	- .9	0	1.1	30	12.5	89	87	42	4	0	0	0
	MILWAUKEE	81	61	87	56	71	4	0	- .9	0	1.1	34	18.2	130	79	45	0	0	0	0
	WAUSAU	85	61	90	53	73	7	.4	- .6	.4	1.3	34	10.2	71	88	43	1	0	1	0
WY	CASPER	85	51	92	42	68	2	.1	- .2	T	3.5	269	10.0	149	84	27	2	0	3	0
	CHEYENNE	78	52	83	48	65	1	T	- .4	T	2.8	147	11.9	172	91	38	0	0	0	0
	LANDER	84	50	90	44	67	3	0	- .3	0	1.3	87	10.1	120	53	18	1	0	0	0
	SHERIDAN	86	49	98	40	68	4	.1	- .4	.1	.5	23	4.0	45	77	27	2	0	1	0
PR	SAN JUAN	95	78	97	75	87	5	T	- 1.0	T	1.6	37	16.1	75	79	44	7	0	1	0

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

National Agricultural Summary

June 20 to 26

HIGHLIGHTS: Heavy showers limited field activities from East Texas through much of the Southeast and across the northern Plains. Growers in these regions had 2 to 4 days suitable for fieldwork. Farmers across the rest of the Nation took advantage of drier weather to catch up on fieldwork. They had generally 4 to 7 days available for outdoor activities. Warm weather stimulated development of crops in all regions except portions of the Northwest where cooler than normal temperatures limited growth. Soil moisture supplies ranged from short to adequate. Dry weather caused deteriorating crop conditions in Montana, stalled late-planted crop emergence in Ohio, and slowed soybean planting in South Carolina. Winter wheat was in fair to mostly good condition. Harvesting reached 12% completion, behind last year and the average. Spring wheat was 14% headed, behind the average of 24%. Corn planting was virtually complete. The crop condition rated fair to good. Soybean planting advanced to 90% completion, 1 point behind average. Progress was 13 percentage points behind the average in Mississippi and Tennessee. Sorghum planting reached 89% completion, compared with the 94% average. Cotton planting was virtually complete; 20% of the acreage was squaring and 4% was setting bolls. Peach picking was 56% complete in Georgia. Vegetable harvesting moved northward. Dry conditions limited grass growth and stressed livestock in many areas. However, pastures and livestock continued in fair to mostly good condition.

SMALL GRAINS: Above-normal temperatures gave a needed boost to winter wheat development from the northern and central Plains through the Corn Belt. Stands continued in fair to mostly good condition. The crop was 97% headed in the 15 major producing States, 1 point ahead of the average. Combining was 12% complete in the major States, compared with 13% a year earlier and the 26% average. Progress ranged from 4% complete in Illinois to about the half-way mark in California and Texas. Kansas producers started harvesting fields in the southernmost counties, while combining was in full swing across Oklahoma. Harvesting neared completion in Central and South Texas but was active elsewhere.

Spring wheat was 14% headed, ahead of last year's 11% but 10 points behind the average. Localized rains prevented widespread drought conditions across Montana. Stands were in good conditjon but deteriorating due to moisture stress. Widespread showers from the northern Plains into Minnesota helped fields recover from earlier dry conditions.

CORN: Producers were virtually finished planting corn in the major producing regions. Emerged plants were in fair to good condition and developing rapidly with warmer weather. Silking was well advanced across the South. Early-planted fields advanced to the dough stage, and some reached the dent stage. Five percent of the Georgia crop was dented compared with the average of 19%.

SOYBEANS: Soybean planting in the 18 major producing States reached 90% completion, the same as a year earlier but 1 point behind average. Producers from the central Plains through the Corn Belt enjoyed ideal planting conditions and progressed rapidly. Planting was nearly finished in the Corn Belt. However, producers in Mississippi and Tennessee were 13 percentage points behind average and Kentucky growers were 10 points behind schedule. South Carolina farmers limited planting due to dry conditions, and moisture shortages in portions of Ohio stalled emergence of late seeded fields. Planting of double-cropped soybeans increased as small grain harvesting gained momentum.

SORGHUM: Sorghum planting in the seven major producing States was 89% completed, ahead of last year's 81% but behind the 94% average. Progress was as much as 25 points behind schedule in Oklahoma and 10 points behind in Kansas. Planting progressed well in Texas. Harvesting was underway in South Texas and in the Rio Grande Valley where 1% of the crop was mature.

COTTON: Cotton planting was virtually finished. In the 14 major producing States, 20% of the acreage had squared. Four percent of the crop was setting bolls in the extreme South. Plants were in fair to good condition and developing rapidly with the warmer weather. Some limited replanting was completed on the Texas High Plains. Farmers began spraying to control increasing insect populations in most producing areas.

OTHER CROPS: Peanut planting was 80% complete in Texas, trailing the average progress of 83%. Earlier planted fields made good growth. The crop was in fair to good condition across the Southeast. Producers applied fungicide and herbicide sprays. Twenty-three percent of the Georgia fields had pegged, lagging the 44% average.

Tobacco transplanting neared completion in most areas. Growers cultivated and sidedressed fields. Spraying was limited to controlling increasing disease and insect infestations. Harvesting advanced to 6% finished in Georgia, half the normal pace for this date.

Rice had emerged on 98% of the seeded acreage, the same as a year earlier. Stands were in fair to mostly good condition and developing rapidly with warmer weather. Growers sprayed to control weeds in all States.

Hay cutting was active in nearly all regions. However, widespread showers lowered the quality of cut hay in many areas.

FRUITS AND NUTS: Peach picking was 56% complete in Georgia, 6 points ahead of normal. South Carolina producers harvested 15% of the crop, compared with the 23% average. Warmer weather aided fruit development in Michigan. New York grapes were in full bloom. Strawberry picking gained momentum across the Northeast. Florida's citrus groves showed an abundance of new growth, and new crop fruit was in very good condition. Valencia orange picking slowed and grapefruit harvesting was almost finished. Harvesting of Valencia oranges and grapefruit remained steady in Arizona. California producers picked apricots, figs, table grapes, nectarines, Freestone peaches, plums, and Valencia oranges. Strawberry picking was active with increased deliveries to processors. The Texas peach harvest moved northward at a rapid pace. Warmer weather aided maturity of the crop. Pecan trees set nuts. Growers were concerned about short moisture levels and sprayed to keep casebearers light.

VEGETABLES: Warmer temperatures aided vegetable crop development in most regions. New York growers planted sweet corn and snap beans. Hot, dry weather stressed vegetable crops in Michigan, and irrigation was used where available. Florida's vegetable shipments declined 30% from the previous week, although volume increased for okra and held steady for Southern peas and

(continued on p. 9)

National Agricultural Summary (continued from p. 8)

watermelons. The condition of tomatoes in South Carolina improved to good, and producers harvested 10% of the crop. Texas producers harvested cantaloupes, cucumbers, onions, okra, potatoes, squash, tomatoes, and watermelons. Market tomato harvesting began in the San Joaquin Valley of California. The harvest of processing tomatoes was active in the Imperial Valley but had just begun in the Palo Verde Valley. Growers also harvested a wide variety of other vegetables.

PASTURES AND LIVESTOCK: Pastures and ranges were in fair to mostly good condition. Hot, dry weather began to limit grass growth in many areas and stressed livestock. However, most areas had ample grass growth, and livestock remained in generally good condition.

State Summaries (continued from p. 16)

were noted over the northwest On 24th with widespread precipitation falling Statewide on 26th. The highest temperature of the week was 98° at Wind Point on 26th. The lowest readin was 44° at Lake Thompson on morning of 20th.

Pasture condition 87% of normal. Soil moisture 47% short, 53% adequate. Days suitable for fieldwork: 5.0.

WYOMING: Temperatures below normal. Precipitation below normal.

Topsoil moisture adequate 62% State, subsoil moisture adequate 90% State. Days suitable for fieldwork: 7.0. Winter wheat booted 35%, headed 50%. Normally, 85% headed. Barley not yet jointed 35%, booted 25%, headed 20%. Spring wheat not yet jointed 55%, jointed not year booted 30%. Oats not yet jointed 50%, jointed not yet booted 30%. Sugarbeets thinned 60%. Normally 90% thinned. Alfalfa 15% first cutting completed, other hay harvested 5%. Moderate to severe water damage to hay crop in extreme southwest. Cattle and calves moved to summer ranges 85%, sheep and lambs moved 80%.

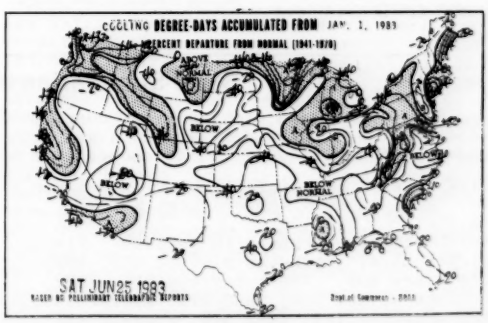
International Weather and Crop Summary (continued from p. 19)

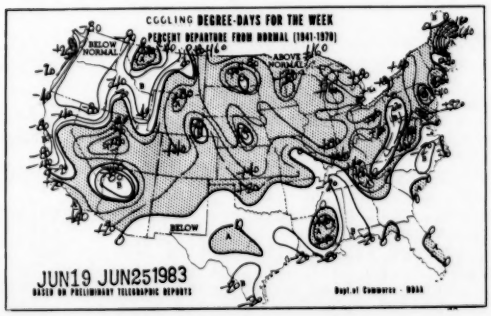
second-crop soybean harvest which should be in the latter stages of progress in many areas of Buenos Aires, Santa Fe and Cordoba. Slightly above-average temperatures and clear skies during the second half of the week favored wheat planting throughout the crop areas.

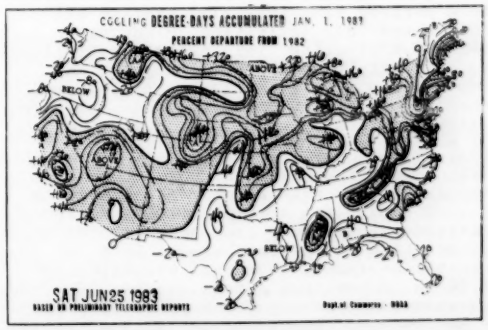
Heating Degree Days (Base 65° F.)

May 1983

ALA.Birmingham	28	MAINE,Caribou	493	OKLA.Okla. City	96
Mobile	4	Portland	393	Tulsa	135
Montgomery	7	MD.Baltimore	152	OREG.Astoria	282
ALASKA,Anchorage	500	MASS.Boston	223	Burns	424
Barrow	485	Chatham	379	Medford	235
Fairbanks	451	MICH.Alpena	551	Pendleton	242
Juneau	-	Detroit	323	Portland	184
Nome	618	Flint	351	Salem	253
ARIZ.Flagstaff	461	Grand Rapids	373	PA.Allentown	222
Phoenix	0	Houghton Lake	505	Erie	312
Tucson	6	Lansing	386	Harrisburg	221
Winslow	183	Marquette	638	Philadelphia	128
Yuma	0	S. Ste. Marie	604	Pittsburgh	280
ARK.Fort Smith	98	MINN.Duluth	562	Scranton	292
Little Rock	39	Internatl Falls	490	R.I.Providence	254
CALIF.Bakersfield	59	Minneapolis	313	S.C.Charleston	2
Eureka	320	Rochester	403	Columbia	24
Fresno	56	St. Cloud	412	Greenville	43
Los Angeles	79	MISS.Jackson	12	S.DAK.Aberdeen	351
Red Bluff	80	Meridian	15	Huron	329
Stockton	70			Rapid City	407
San Diego	9	MO.Columbia	159	Sioux Falls	317
San Francisco	225	Kansas City	180	TENN.Chattanooga	42
COLO.Denver	419	St. Louis	117	Knoxville	50
Grand Junction	238	Springfield	133	Memphis	25
Pueblo	258	MONT.Billings	381	Nashville	71
CONN.Bridgeport	280	Glasgow	412	TEX.Abilene	226
Hartford	261	Great Falls	434	Amarillo	171
D.C.Washington	77	Havre	384	Austin	4
FLA.Apalachicola	0	Helena	417	Beaumont	1
Ft. Myers	0	Kalispell	417	Brownsville	0
Jacksonville	1	Miles City	364	Corpus Christi	0
Key West	0	Missoula	402		
		NEBR.Grand Island	269	Del Rio	0
Miami	0	Lincoln	238	El Paso	23
Orlando	0	Norfolk	258	Fort Worth	21
W. Palm Beach	0	North Platte	343	Galveston	0
Tallahassee	1	Omaha	244	Houston	0
Tampa	0	Valentine	385	Lubbock	68
GA.Atlanta	24	NEV.Ely	533	Midland	19
Augusta	8	Las Vegas	21	San Angelo	13
Macon	1	Reno	371	San Antonio	1
Savannah	0	Winnemucca	377	Victoria	0
IDAHO,Boise	309	N.H.Concord	364	Waco	9
Lewiston	243	N.J.Atlantic City	166	Wichita Falls	43
Pocatello	415			UTAH,Milford	417
ILL.Cairo	31	N.MEX.Albuquerque	127	Salt Lake City	314
Chicago	364			VT.Burlington	367
Moline	228	N.Y.Albany	312	VA.Lynchburg	127
Peoria	206	Binghamton	356	Norfolk	85
Rockford	316	Buffalo	342	Richmond	69
Springfield	169	New York	188	Roanoke	157
IND.Evansville	106	Rochester	347	WASH.Colville	285
Fort Wayne	218	Syracuse	351	Omak	-
Indianapolis	211	N.C.Asheville	127	Quillayute	353
South Bend	298	Charlotte	46	Seattle-Tacoma	244
		Greensboro	97	Spokane	285
Des Moines	219	Hatteras M.	50	Walla Walla	168
Dubuque	306	Raleigh	79	Yakima	191
Sioux City	270	Wilmington	46	W.VA.Beckley	230
KANS.Concordia	236	N.DAK.Bismarck	434	Charleston	153
Dodge City	164	Fargo	580	Huntington	156
Goodland	326	Williston	438	Parkersburg	-
Topeka	120	OHIO,Akron-Canton	281	WIS.Green Bay	495
Wichita	168	Cincinnati	193	Madison	400
KY.Lexington	151	Cleveland	284	Milwaukee	452
Louisville	121	Columbus	239	WYO.Casper	506
LA.Baton Rouge	2	Dayton	258	Cheyenne	533
Lake Charles	0	Toledo	311	Lander	508
New Orleans	1	Youngstown	359	Sheridan	431
Shreveport	12				







CROP PROGRESS

FOR WEEK ENDING JUNE 26

WINTER WHEAT
% HEADED

	1983	1982	AVG.
CALIF	100	100	100
COLO	92	99	99
IDAHO	66	72	70
ILL	100	100	100
IND	100	100	100
KANS	100	100	100
MO	100	100	100
MONT	65	5	45
NEBR	100	100	100
OHIO	100	100	100
OKLA	100	100	100
OREG	99	97	97
S DAK	86	94	98
TEX	100	100	100
WASH	100	97	92
15 STATES	97	95	96

WINTER WHEAT
% HARVESTED

	1983	1982	AVG.
CALIF	50	50	58
COLO	0	0	0
IDAHO	0	0	0
ILL	4	19	13
IND	0	7	6
KANS	0	2	20
MO	12	21	23
MONT	0	0	0
NEBR	0	0	3
OHIO	0	0	0
OKLA	30	25	65
OREG	0	0	0
S DAK	0	0	0
TEX	49	46	60
WASH	0	0	0
15 STATES	12	13	26

THESE 15 STATES PRODUCED 80% OF THE 1982 WINTER WHEAT CROP.

COTTON
% SQUARING

	1983	1982	AVG.
ALA	18	54	45
ARIZ	80	75	77
ARK	15	73	61
CALIF	30	20	39
GA	62	73	80
LA	23	70	50
MISS	36	78	62
MO	0	48	44
N MEX	8	50	58
N C	18	42	38
OKLA	0	0	0
S C	35	87	86
TENN	8	54	34
TEX	11	16	25
14 STATES	20	34	37

COTTON
% SETTING BOLLS

	1983	1982	AVG.
ALA	0	0	0
ARIZ	20	0	5
ARK	0	0	0
CALIF	0	0	4
GA	9	14	25
LA	1	2	8
MISS	0	1	3
MO	0	0	0
N MEX	0	0	0
N C	4	2	5
OKLA	0	0	0
S C	0	16	16
TENN	0	0	0
TEX	5	10	13
14 STATES	4	6	9

THESE 14 STATES PRODUCED 99% OF THE 1982 COTTON CROP.

SOYBEANS
% PLANTED

	1983	1982	AVG.
ALA	81	91	90
ARK	67	78	69
GA	86	87	88
ILL	99	97	97
IND	100	98	93
IOWA	100	97	99
KANS	85	40	85
KY	68	83	78
LA	87	91	93
MICH	98	100	99
MINN	99	99	99
MISS	75	92	88
MO	88	75	82
NEBR	100	94	100
N C	83	78	86
OHIO	99	100	95
S C	83	85	89
TENN	72	86	85
18 STATES	90	90	91

THESE 18 STATES PRODUCED 94% OF THE 1982 SOYBEAN CROP.

SORGHUM
% PLANTED

	1983	1982	AVG.
COLO	78	74	87
KANS	80	60	90
MO	91	75	80
NEBR	100	96	100
OKLA	70	65	95
S DAK	94	81	96
TEX	93	93	97
7 STATES	89	81	94

THESE 7 STATES PRODUCED 90% OF THE 1982 SORGHUM CROP.

RICE
% EMERGED

	1983	1982	AVG.
ARK	97	98	98
CALIF	95	95	98
LA	100	100	100
MISS	99	100	100
TEX	100	100	100
5 STATES	98	98	99

THESE 5 STATES PRODUCED 98% OF THE 1982 RICE CROP.

SPRING WHEAT
% HEADED

	1983	1982	AVG.
IDAHO	20	26	36
MINN	17	14	33
MONT	10	1	5
N D	8	5	16
S DAK	31	31	59
5 STATES	14	11	24

THESE 5 STATES PRODUCED 96% OF THE 1982 SPRING WHEAT CROP.

State Summaries of Weather and Agriculture

These summaries provide brief descriptions of crop and weather conditions important on a national scale. More detailed data are available in Weather and Crop Bulletins published each Monday by SRS State Offices in cooperation with the National Weather Service.

ALABAMA: Variable rainfall, heavier amounts south. Air and soil temperatures below normal.

Soil moisture adequate to surplus. Fieldwork: 2.9 days. Soybeans planted 81%, 1982 91%, average 90%. Wheat harvest 48%, 1982 86%. Corn silked 30%, 1982 71%, average 53%. Cotton squaring 18%, 1982 54%, average 45%. Peanuts pegging 18%, 1982 27%, average 22%. Hay harvested 78%. Activities: Planting soybeans, cultivating field crops, controlling pests on fruit, vegetables, and crops, and harvesting hay, wheat, early vegetables, and peaches. Conditions: Corn, soybeans, pasture, and livestock mostly good; cotton fair to good; peanuts good.

ALASKA: Hot, dry weather across Interior Valleys. Temperatures ranging into low 90's. Warm, dry conditions across Southern Valleys. Temperatures 10° warmer than normal Interior, 6° warmer than normal Southern Valleys. Precipitation light. Seasonal rainfall 1.00 to 1.50 in. dryer than normal.

Sunshine warm temperatures promoted rapid crop development throughout the Railbelt, allowing 7 days fieldwork. Rain needed for normal crop development. Small grain heights averaged 6 to 15 in. compared with 5 to 10 in. last year. Early seeded oats, barley in preboot stage. Farmers took advantage excellent weather as hay harvest in full swing. Ten percent first cutting completed. Potato heights ranged 3 to 9 in., last year up to 5 in. Topsoil moisture short; subsoil moisture adequate.

ARIZONA: Mostly sunny weather prevailed first half week. Scattered showers, thundershowers White Mountains, southeastern corn, amounts mostly between 0.10 and 0.33 in. Moist air caused slightly lower temperatues spread across eastern half State midweek. Temperatures ranged 3° above normal to 5° below.

Development 1983 cotton crop good. Recent hot weather patterns aided cotton growth. Squaring, boll setting ahead last year, average. Approximately 80% cotton squaring, last year 75%, average 77%. Bolls setting 20% acreage compared to no boll set last year, average 5%. Most cotton setting bolls concentrated western cotton producing areas, limited boll set under-

way central areas. First post-plant irrigations beginning southeastern counties, cotton just starting to square. Insecticides, herbicides applied as needed. Wheat, barley harvest mostly peaked central, western areas, rapidly winding down. Southeastern areas started combining wheat, barley slightly past halfway mark. Growers reporting good yields. Alfalfa made average progress, haying activities running full swing. Stands mostly established earlier planted corn, sorghum, some sorghum being planted. Safflower normal progress. Cantaloups, watermelons, honeydew melons picked large scale Yuma, Lapaz, Mohave Counties. Harvest also increasing Maricopa County for cantaloups, watermelons. Immature melons made satisfactory progress. Dry onion harvest complete. Growers digging chipper potatoes, table potato harvest complete central areas. Valencia oranges, grapefruit picked steady rate Maricopa County, citrus activity Yuma County complete by July 1. Harvest different grape varieties continued Yuma, Maricopa Counties. Perletter harvest complete, growers beginning pick red grapes, expected begin Thompson seedless harvest July 1.

ARKANSAS: Temperatures averaged +1 to 4° below normal. Highest 97°, lowest 57°. Precipitation 0.50 to 1.80 in. except very light northeast.

Days suitable for fieldwork: 6.2. Soil moisture adequate southeast, short elsewhere. Cotton fair; squaring 15%, 73% 1982, 60% average; no boll setting. Rice good condition; emerged 97%, 98% 1982 and average. Soybeans good to fair condition; planted 79%, 86% 1982, 83% average; emerged 67%, 78% 1982, 69% average. Wheat harvested 78%, 87% 1982, 93% average. Oats harvest virtually finished, same as 1982 and average. Corn good condition, sorghum good condition, virtually all planted, about same as 1982 and average. Pastures average. Cattle good condition. Peach and tomato harvests building up to volume.

CALIFORNIA: Upper level trough first part of week brought cooler air across much of the State. Weekly mean temperatures below normal except through South Coast and Desert Interior. The Desert region with normal mean temperature, the South Coast a couple above normal. Morning temperatures down to freezing a few days Sierra Cascade region. No precipitation reported Statewide. Good weather being received. Harvest of small grain full swing. Winter wheat 50% harvested, 50% last year, 58% average. Rice crop coming along well, 95% emrged, 95% last year, 98% average. Spraying for weeds active. Cotton growing well in the San Joaquin and Imperial Valleys, 30% squared, 20% last year, 39% average. Planting of dry beans and corn continues. Earlier planted fields progressing well. Sugarbeet field cultivation taking place. Apricots, figs, Desert table grapes, nectarines, Freestone peaches, plums, Valencia oranges harvested. Clingstone peaches thinned. Almonds, walnuts sprayed. Artichoke harvest very light. Broccoli harvest moderate, good quality. Cantaloup harvest active Imperial Valley, full swing Palo Verde Valley. Carrot harvest slowing Desert, moderate other areas. Cauliflower supplies moderate. Celery harvest active South Coast, light Central Coast. Sweet corn harvest past peak Coachella Valley. Increasing South Coast, San Joaquin Valley. Lettuce harvest moderate to heavy Central Coast. Onion harvest active San Joaquin Valley, decreasing Desert. Spring potato harvest heavy Kern District. Strawberry harvest active, increased deliveries to processors. Market tomato harvest started San Joaquin Valley, continued Desert, South Coast. Processing tomato harvest active Imperial Valley started Palo Verde Valley. Early San Joaquin Valley fields turning color. Desert watermelon harvest full swing. Summer grazing conditions good to excellent. Winds continue dry Foothill grass. Grasshopper build-up major problem most Foothill districts, Sacramento, San Joaquin Valleys. Stock water supplies adequate.

COLORADO: Warm and dry most of week; finishing wet and cooler. Average temperatures 2 to 4° above normal.

Winter wheat in very good condition; 92% headed, 99% last year and average; 22% turning color, 56% last year, 44% average. Corn in good condition; 95% emerged, about normal; height 10 in., 9 in. last year, 11 in. average. Sorghum in good condition; 78% planted; 74% last year, 83% average. Barley, oats, and spring wheat in good condition. Barley, 38% headed, 46% last year. Statewide 6.0 days suitable for fieldwork. Topsoil and subsoil moisture adequate. Range and pasture conditions very good.

FLORIDA: A weak upper air trough moved through the Panhandle early week, triggering more thunderstorms than normal. A warm, humid tropical air mass with light winds remained over the State throughout the week. Scattered, normal afternoon, evening thunderstorms brought variable rains of 1.00 to 2.00 in. over Peninsular region. Isolated areas reported rains exceeding 3.00 in. Temperatures averaged near normal except slightly below normal in cloudier northern areas.

Soil moisture mostly adequate; a few wet spots, Panhandle, a few dry areas, north. Corn good progress, cutting silage underway. Tobacco harvest increasing. Peanuts good growth, weed problems in many fields. Soybean planting nearing completion, ahead of normal. Cotton mostly good condition, early planted acreage squaring. Sugarcane, rapid growth. Small grain harvest about complete. Pastures mostly good to excellent. Conditions very favorable, south. Cattle remain in good to excellent condition. Citrus excellent condition. Moisture adequate with afternoon rains. Abundance of new foliage. Most new crop fruit very good condition. Valencia orange harvest slowing. Grapefruit picking almost completed for 1982-83 season. Typical summer weather with hot days, warm nights continued in vegetable areas. Skies partly cloudy to cloudy with scattered afternoon thunderstorms. An upper air trough in early week caused more thundershowers than normal. Season complete or nearing completion for most crops. Total shipments decreased 30% from previous week. Okra harvest gained, however. Volume about steady Southern peas, watermelons. No movement Chinese cabbage, escarole and lettuce. Shipments declined all other crops. Watermelon harvest very active central, northern areas but essentially complete in south.

GEORGIA: Temperatures 2 to 4° below normal. Rainfall mainly from showers during latter half of period. Amounts somewhat variable, generally heaviest southwest and lightest northeast. Average amounts near 2.00 in. southwest and 0.25 to 0.50 in. northeast. Mostly sunny skies over the 25th and 26th with warm temperatures. Rainfall averaged less than 0.10 in. and occurred mostly in south and west central areas. Temperatures averaged 2 to 5° below normal. Greatest reported rainfall was 1.60 in. at Columbus.

Soil moisture variable: 3% very short, 13% short, 67% adequate, 17% surplus. Average days suitable for fieldwork 3.6. Farm activities limited by rain. Corn silked 55%, 87% last

year, 83% average; dough 18%, 58% last year, 52% average; dent 5%, 22% last year, 19% average; condition 3% poor, 30% fair, 63% good, 3% excellent. Cotton squaring 62%, 73% last year, 80% average; setting bolls 9%, 14% last year, 25% average; condition 3% poor, 25% fair, 68% good. Insect build-up on cotton. Peanuts 69% blooming, 75% last year, 82% average; 23% pegging, 37% last year, 44% average; condition 3% poor, 33% fair, 59% good, 3% excellent. Applying fungicide and herbicide sprays. Soybeans planted 86%, 87% last year, 88% average; 3% blooming, 6% last year, 7% average; condition 3% poor, 27% fair, 63% good, 6% excellent. Weed and insect control on soybeans. Tobacco 6% harvested, 17% last year, 12% average; condition 55% fair, 43% good. Problems with budworms on tobacco. Watermelons 5% harvested, 24% last year, 18% average; condition 12% poor, 42% fair, 44% good. Peaches 56% picked this year and last, 50% average; condition 33% very poor, 18% poor, 22% fair, 25% good. Apple condition 19% very poor, 24% poor, 31% fair, 26% good. Grain sorghum 81% planted, 80% last year, 78% average; condition 33% fair, 65% good. Wheat 88% harvested, 90% last year, 92% average; condition 9% poor, 48% fair, 39% good. Rye condition 5% very poor, 12% poor, 52% fair, 31% good. Other small grains 4% very poor, 8% poor, 49% fair, 39% good. Pastures 4% poor, 27% fair, 66% good. Hay 6% poor, 32% fair, 59% good and 3% excellent.

HAWAII: Weather hot and dry with occasional light showers. Spray programs increasing to control insects and diseases. Banana supplies light. Moderate to heavy supplies head cabbage. Lettuce supplies moderate. Papaya production decreasing.

IDAHO: Several weather systems produced below normal temperatures across the State and abundant moisture in the north. Temperatures averaged 5° below normal for the State ranging from 6° below average at Burley to normal at Idaho Falls. Precipitation was above normal in the northern half of the State with over 0.50 in. above average common. Sandpoint recorded the greatest amount with 1.32 in. The southern half of the State experienced below normal rainfall with between 0.10 and 0.25 in. below average common.

Favorable conditions continued as 6.2 days were suitable for fieldwork. Winter wheat was 66% headed versus 72% last year and 70% average. Almost 20% of the spring wheat and 17% of the barley were headed compared to 26% and 27% respecitvely last year. Potato emergence at 93% trailed 1982's 98% but was the same as average. Almost 97% of the dry bean crop had emerged versus 92% last year. The first cutting of alfalfa hay was complete on 52% of the acres compared to 50% last year. Ranges and pastures were generally in good condition.

ILLINOIS: Temperatures 2 to 13° above normal. Precipitation none to 0.43 in.

Soil moisture 38% short, 61% adequate, 1% surplus. Days suitable fieldwork: 6.3. Corn average height 21 in., 1982 35 in., average 29 in.; height most advanced fields 31 in., 1982 50 in., average 44 in.; condition 8% excellent, 73% good, 19% fair. Soybeans 99% planted, 1982 97%, average 97%; condition 1% excellent, 66% good, 32% fair, 1% poor. Sorghum 90% planted, 1982 90%, average 91%. Winter wheat 90% turning yellow, 1982 98%, average 93%; 17% ripe, 1982 65%, average 59%; less than 5% harvested, 1982 19%, average 13%; condition 11% excellent, 63% good, 23% fair, 3% poor. Oats 75% headed, 1982 88%, average 88%; 40% filled, 1982 59%, average 58%; 10% turning yellow, 1982 18%, average 14%; condition 4% excellent, 58% good, 34% fair, 4% poor. Alfalfa hay 1st crop 94% cut, 1982 94%, average 97%; 2nd crop 5% cut, 1982 14%, average 21%; condition 11% excellent, 72% good, 16% fair, 1% poor. Clover hay 82% cut, 1982 79%, average 81%; condition 9% excellent, 84% good, 7% fair. Pasture condition 21% excellent, 59% good, 17% fair, 3% poor. Livestock condition fair, suffering heat stress.

INDIANA: Temperatures 6 to 9° above normal north, 4 to 8° central and 3 to 6° above south. Temperatures 90 or higher 4 to 6 days during week. No precipitation until late in week. A tenth inch in north only. Soil temperature into the 90's. Growing degree days highest of season.

Crops showing heat, moisture stress. Fieldwork averaged 6.1 days. Topsoil moisture mostly short to adequate. Subsoil moisture short to mostly adequate. Soybeans 100% planted, 1982 98%, average 93%. Soybeans 95% emerged, 1982 95%. Soybeans 5 in. tall, 1982 8 in., average 5 in. Soybean condition fair to mostly good. Corn 15 in. tall, 1982 33 in., average 23 in. Corn condition fair to mostly good. Wheat condition fair to mostly good. Wheat 100% headed, 1982 100%, average 100%. Wheat harvested 0%, 1982 7%, average 6%. Wheat 95% in milk, 1982 95%. Wheat 65% turning color, 1982 75%, average 75%. Wheat 5% ripe, 1982 30%, average 30%. Oats 70% headed, 1982 85%, average 85%. Oats 20 in. tall, 1982 26 in. Alfalfa hay 97% cut once, 1982 92%, average 93%. Clover hay 85% cut, 1982 75%, average 85%. Rye 3% combined, 1982 4%, average 7%. Tobacco plants 95% set, 1982 85%, average 90%. Pastures fair to good.

IOWA: A hot, humid, hazy week with heavy precipitation and flooding early in the week northwest.

Days suitable 5.3. Corn cultivated 1st time 70%; 62% last year; 66% normal. Soybeans emerged 98%; 85% last year; 97% normal. Soybeans cultivated 1st time 36%. First crop alfalfa hay harvested 88%; 88% last year; 92% normal. First crop clover hay harvested 50%; 61% last year; 68% normal. Oats headed 40%; 76% last year; 83% normal. Topsoil moisture 28% short; 61% adequate; 11% surplus. Subsoil moisture 3% short; 78% adequate; 19% surplus.

KANSAS: Precipitation averaged little or more west and north central, up to 0.50 in. east and south central. Temperatures averaged 77 to 80°, about normal south central, 3 to 5° above normal northwest quarter.

Wheat headed, 100%, last year 100, average 100. Turning color 85%, last year 90%, average 95%. Ripe 5%, last year 30%, average 55%. Harvested none, last year 2% and average 20%. Harvesting started southernmost counties. Sorghum planted 80%, 60% last year, average 90%. Soybeans planted reached 85% completion, last year 40%, average 85%. Soil moisture mostly adequate with a few counties short in the west and a few counties surplus in the east. Hot, dry weather early in week allowed 5.5 days suitable for fieldwork and haying.

KENTUCKY: Unseasonably warm and dry. High temperatures rose to 90 or above at all reporting locations and daily averages were from near normal to 5° above normal. Precipitation was light and spotty and occurred very early in week. Amounts ranged from trace to little more than 0.50 in.

Days favorable for fieldwork averaged 5.3. Soil moisture 28% short, 71% adequate, 1%

surplus. Corn planting virtually complete, only some silage corn remaining. Last year 100%, average 100%. Average height emerged corn 17 in. Soybeans 68% planted, 83% last year, 78% average. Planting of double crop beans will pick up as small grain harvest advances. Wheat harvest 10% complete. Last year 63%, average 46%. Crop poor to fair. Barley harvest 70% complete. Tobacco plants under 6 in. Tall 57%, only 8% over a foot. Some resetting. Disease and insect damage minor. Haying active. Pastures good to excellent.

LOUISIANA: Rainfall averaged 1.56 in. northwest to 3.29 in. southeast. Temperatures averaged 2 to 4° below normal. High 91°, low 62°.

Soil moisture adequate to surplus. Days suitable 3.0. Spring plowing complete. Corn silked 61%, 91% 1982, 81% average. Dough 16%, 53% 1982. Mature 1%, 3% 1982. Condition fair to good. Cotton squaring 23%, 70% 1982, 50% average. Setting bolls 1%, 2% 1982. Condition fair. Rice emrged 100%, 100% 1982, 100% average. Headed 3%, 16% 1982, 20% average. Condition fair to good. Sorghum planted 95%, 97% 1982, 93% average. Emerged 91%, 94% 1982, 87% average. Headed 6%, 34% 1982. Condition fair to good. Soybeans planted 87%, 91% 1982, 93% average. Emerged 81%, 85% 1982, 86% average. Blooming 9%, 1% 1982. Condition fair to good. Sweetpotatoes transplanted 79%, 97% 1982, 95% average. Condition fair to good. Sugarcane condition good. Wheat harvested 96%, 98% 1982. Condition fair. Hay first cutting 82%, 92% 1982. Pecans rated fair. Peach harvest 25%, 43% 1982. Condition good. Vegetables rated fair to good. Pastures and livestock rated good.

MARYLAND AND DELAWARE: Heavy rainfall throughout both the States limited fieldwork the first part of the week. Temperatures averaged near normal to 2° above. Heaviest rains fell in north central and southern districts.

Delaware: Soil moisture ranged from adequate to surplus. Days suitable for fieldwork 4.5. Corn planted 100%, last year and on average 100%. Soybeans 70% planted, 90% last year, 85% average. Rye 90% turned, 30% harvested, last year 100% turned. None harvested. Barley 90% harvested, last year 95%. Wheat 95% turned, last year 100%. All vegetables planted. Peas harvested 45%, last year 82%. First cuttings alfalfa 97%, last year 100%. Other hays 95% cut first time, last year 100%.

Maryland: Topsoil moisture adequate to surplus. Field corn 100% planted; 100% last year; average 100%. Soybeans 70% planted, last year and average 85%. Tobacco 90% transplanted, last year 85% and average of 90%. Small grains good to excellent. Wheat turned 85%, 90% last year. Oats 60% turned, 85% last year. Barley 60% harvested, 70% last year. Major vegetables all planted. Alfalfa hay, 1st cutting, 96% complete, 95% last year. Other hay 80% harvested, 60% last year. Days suitable for fieldwork: 4.0.

MICHIGAN: This was the second consecutive week of hot, dry weather after over two months of cool and wet weather. Average temperatures were 5° above normal. Precipitation was almost nonexistant. Western upper received the largest amount with 0.80 in.

Fieldwork and haying very active during the week. Statewide 6.6 days suitable for fieldwork. Soil moisture supplies becoming short in most areas of the Lower Peninsula. Soybean planting 98% complete, 100% last year, 99% average. Dry beans 90% planted, 85% last year, 92% average. Winter wheat 95% headed, 98% last year, 100% average. Oats 15% headed, 35% last year, 39% average. Strawberries 30% picked, 60% last year, 56% average. Recent warm weather advanced development of fruit crops. Vegetable crops stressed by hot dry weather and irrigation used where available.

MINNESOTA: A warm week with heavy rainfall some areas. Temperatures averaged 4 to 8° above normal for State. High: 95°, low: 43° Precipitation averaged 0.42 to 0.78 in. below normal for northeast, west central, south central, and southeast; 0.17 to 0.42 in. above normal for northwest, north central, east central, and southwest; 2.93 in. above normal for central. Greatest official weekly total: 9.73 in.

Crop development was aided by warm, humid weather. Row crops started to catch up. Small grains were recovering from earlier drought stress in west central. Uncut hay benefited from rain and warmth, but drying conditions poor for hay still in swath. Flash flood in central district caused flood and erosion damage to crops. Scattered hail and rain damage in southwest and south central districts. Extensive areas of standing water in northwest district have stressed small grains and necessitated aerial herbicide applications. Topsoil moisture: 12% short, 57% adequate, 31% surplus. Average number of days suitable for fieldwork: 3.8. Emerged: Soybeans 96%, 1982 93%, normal 97%. Height in inches: Corn 12%, 1982 13%, normal 15%; soybeans 5, 1982 5, normal 6; sunflowers 6, 1982 5, normal 7. Jointing: Spring wheat 78%, 1982 71%, normal 74%; oats 79%, 1982 76%, normal 79%; barley 80%, 1982 71%, normal 74%. Heading: Spring wheat 17%, 1982 14%, normal 33%; oats 20%, 1982 17%, normal 40%; barley 27%, 1982 23%, normal 41%.

MISSISSIPPI: Temperatures 2 to 5° below normal. Extremes 61 and 92°. Rainfall averaged from 0.27 to 3.83 in. Heaviest southwest.

Soil moisture adequate northwest and southeast, surplus to excessive elsewhere. Fieldwork 2.5 days suitable, 5.3 last year, 5.1 average. Soybeans 75% planted, 92% last year, 88% average; 60% to stand, 80% last year; condition fair to good. Cotton 36% squaring, 78% last year, 62% average; 0% setting bolls, 1% last year, 3% average; condition fair to poor. Rice 99% up to stand, 100% last year and average; condition fair. Corn 21% silking, 51% last year, 48% average; condition good to fair. Sorghum 90% planted, 94% last year, 90% average. Sweetpotatoes 85% planted. Winter wheat 46% harvested, 95% last year, 90% average; condition fair to good. Hay 45% harvested, 50% last year, 44% average. Peaches 15% harvested. Pasture condition good.

MISSOURI: Days suitable for fieldwork: 5.6. Grain sorghum 91% planted, 75% last year and 80% normal. Soybeas 98% planted, 75% last year and 82% normal. First cutting alfalfa hay 94% harvested, 83% last year and 85% normal. Second cutting alfalfa hay 13% harvested, 15% last year and 19% normal. Other hay 69% harvested, 46% last year. Winter wheat 93% turning color, 97% last year and 92% normal. Wheat 12% harvested, 21% last year and 23% normal. Corn condition 3% excellent, 65% good, 31% fair and 1% poor. Pasture condition 3% excellent, 74% good, 22% fair and 1% poor. Topsoil moisture supplies 5% surplus, 66% adequate and 29% short.

Temperatures were above normal, with an average of 2° above normal for the State. Precipitation vaired, with thunderstorms on 26th. Rainfall ranged from none in the extreme northern part of the State to 6.00 in. in the east central portion. The average rainfall was 0.50 in.

MONTANA: Cool over western half of State as temperatures averaged 2 to 4° below normal. Warm eastern half of temperatures averaged 2 to 5° above normal. Temperatures above 100 over most of northeast and southeast late in week. Some heavy showers, 1.00 to 2.00 in., in the extreme east early in week, otherwise scattered light to moderate showers.

Soil moisture short. Localized rains preventing widespread drought. Most crops fair to good condition but deteriorating. Spring crops especially vulnerable. Winter wheat 65% headed, 5% last year, 45% average. Spring wheat 45% boot, 10% headed, last year 15% boot, 1% headed. Normal 20% boot, 5% headed. Fieldwork days suitable 6.0. Nearly 20% alfalfa hay cut, last year none, average 15%.

NEBRASKA: Precipitation of 0.50 in. Panhandle up to 2.50 in. central and east. Temperatures 2 to 7° above normal. First above normal week of the growing season.

Corn mostly good. Above normal temperatures gave a much needed boost to growth and development. Sorghum and soybean planting completed. Winter wheat good. Turning color 60%, last year 55%, normal 75%. Ripe less than 1%, a year ago 2%, normal 15%. Harvested 0%, last year 0%, normal 3%. First cutting of alfalfa 85%, behind both last year 90% and normal 98%. Pasture and range feed good. Topsoil moisture adequate. Subsoil moisture mostly adequate to surplus. Days suitable for fieldwork 4.8.

NEVADA: Mostly fair skies across State. Two relatively dry, cold fronts produced cloudiness and some light precipitation northeast sections. Frontal passages produced mostly increases in surface winds with afternoon gusts in excess of 38 miles per hour across State. Both afternoon highs and morning low temperatures near normal.

Alfalfa hay harvest moving northward and gaining momentum. Livestock grazing on lush vegetation range areas.

NEW ENGLAND: Hot, dry week with temperatures 3 to 5° above normal. Scattered showers and thunderstorms dropped 0.05 to 0.40 in. over New England.

Ideal growing conditions. Soil moisture adequate. Maine potato emergence 85%, still 1 to 2 weeks behind schedule. Field corn planting complete in southern New England, 95% in northern areas. First cut hay, 70% harvested. Apple set and drop average.

NEW JERSEY: Temperatures averaged 2° below normal. Extremes were 43° on the 26th and 93° on the 24th. Weekly rainfall averaged 0.41 in. north, 1.37 in. central and 2.71 in. south. The heaviest 24-hour total 3.91 in. on the 20th to 21st. Estimated soil moisture, in percent of field capacity, averaged 74% north, 74% central and 81% south. Four inch soil temperatures averaged 70° north, 73° central and 76° south.

Fieldwork: 5.2 days suitable. Main farm activites: Baling hay, planting early and fall vegetables. Most crops in good to excellent condition. Topsoil moisture supplies adequate.

NEW MEXICO: Average temperatures near normal. Minimum 32°, western mountains, maximum 103°, southeastern Plains. Scattered thundershowers, all areas. Largest accumulation 1.77 in., northern mountains. Smallest 0.03 in., southern Desert.

Cotton squared: 8%, 50% previous year, 58% average. Emerged crop, good condition. Alfalfa hay good. First cutting complete. Second cutting continuing. Wheat, barley harvest full swing. About 40% complete. Grain sorghum 95% planted, good condition. Corn good condition. Mesilla Valley onions being harvested. Chile fields good condition, behind normal development. Peanuts virtually in. Potatoes good condition. Ranges fair to good. Some weed problems. Cattle, sheep good condition.

NEW YORK: Very light rainfall, temperatures above normal.

Another excellent week for fieldwork, crop growth. Corn planting nearly complete. Wheat, oats heading. Great haying progress, 1st cut alfalfa hay 77% done, 24% 1982, 30% average. Clover-timothy haying 59% done, 12% 1982, 19% average. Grass silage 78% cut, 30% 1982, 39% average. Best haying progress in over 11 years. Apples, cherries, peaches, pears, grapes in good condition. Grapes in full bloom. Strawberry harvest underway. Sweet corn, snap bean planting continues. Some areas dry, growers irrigating vegetable crops.

NORTH CAROLINA: Temperature 1 to 2° below normal Statewide. Precipitation light across the State.

Soil moisture: 1% very short, 31% short, 65% adequate and 3% surplus. Days suitable for fieldwork: 5.2. Condition: Irish potatoes: 4% poor, 29% fair, and 67% good. Peaches 52% poor, 31% fair and 17% good. Tobacco in fields: 40% fair, 58% good and 2% excellent. Corn 24% fair, 68% good and 8% excellent. Cotton: 55% fair, 40% good and 5% excellent. Peanuts: 22% fair and 78% good. Soybeans 28% fair, 71% good and 1% excellent. Apples: 4% poor, 56% fair, and 40% good. Planting progress: Sweetpotatoes 83%, 1982 90%, 93% average; sorghum 86%, 1982 91%, 88% average. Soybeans 83%, 1982 78%, 86% average. Burley tobacco 97%, 1982 100%, 98% average. Harvests: Irish potatoes 16%, 1982 30%, average 43%; wheat 59%, 1982 63%, average 66%; oats 75%, 1982 73%, average 76%, barley 80%, 1982 75%, average 79%; rye 70%, 1982 60%, average 74%. Major farm activites: Soybean planting, small grain and hay harvest and cultivation of tobacco and corn.

NORTH DAKOTA: Heavy rainfall early in week. Hot, windy conditions remainder. Temperatures averaged 5° above normal. Extremes from 98 to 49°. Precipitation above normal.

Isolated instances of hail damage, drowned out crops, soil erosion. Crops mostly good to excellent condition. Small grain maturity about normal, row crop development slightly ahead. Percent heading or beyond compared to last year and average for hard red spring wheat were 8, 5, 16. Topsoil moisture conditions lagging last year but better than average. Specifically 26% short, 72% adequate and 3% surplus. Farmers haying, summer fallowing, cultivating row crops and spraying. Cutworms, sunflower beetles and grasshoppers showing up. Some fields have been reseeded due to severe insect damage. Crops being sprayed for tanspot and leafy spurge.

OHIO: Temperatures above seasonal averages. Wide ranges from upper 50's morning to mid 90's afternoon. Minimal precipitation.

Corn stands variable very poor to very good. Soybeans fair to good. Moisture shortages serious in some areas. Strawberry harvest to 60%; late. Soybeans planted 99%, 100% 1982, 95% average. Winter wheat headed 100%, 100% 1982, 100% average. Alfalfa, first cut 95%, 85% 1982, 85% average. Other hay, first cut 85%, 65% 1982, 65% average. Oats headed 65%, 75% 1982, 70% average. Tobacco transplanted 90%, 75% 1982, 85% average. Days favorable: 5.0. Pasture condition good. Soil moisture 35%, 65% 1982, 2% average.

OKLAHOMA: Temperatures near normal most divisions ranged from 4° below Panhandle to 1° above central and northeast. Rainfall in all divisions ranging from 0.09 in. west central to 1.15 in. southeast with most areas less than 0.75 in. Harvest has begun across the State and wheat harvest is in full swing. Cotton plantings increased from 65% last week to 95% this week. Livestock continue to have tick and other insect problems in east. Cattle in good condition and forage growth has been excellent. Farmers had 6.3 days suitable for fieldwork. Wheat headed: 100%; 100% 1982; 100% average. Wheat harvested: 30%, 25% 1982, 65% average. Sorghum planted: 70%, 65% 1982, 95% average.

OREGON: Rainfall during week left up to 1.20 in. along coast and northern Cascades; up to 0.50 in. in Willamette Valley and northeast; less than 0.10 in. elsewhere. Temperatures average 6° below normal in central portion; 3° below elsewhere.

Winter wheat turning, 99% headed, 97% 1982; 97% average. Barley harvest underway. Grass seed and crimson clover being swathed in Willamette Valley. Rain damaged some hay. Thinning of apples and Bartlett pears continues in Hood River Valley. Cherry picking well advanced in Wasco Co. Strawberry harvest past peak; some picker shortages. Rain hampering harvest and causing mold. Raspberry harvest in full swing; marion berry and boysenberry picking to start this week. Cranberries in full bloom or nearing end of bloom. Filberts appear light. Potatoes look good in all areas; some frost in higher elevation fields. Onions beginning to bulb. Green pea harvest in full swing with better quality and yields than earlier fields. Asparagus harvest over. Snap beans and sweet corn planting about complete. Livestock good. Range and pasture good to excellent.

PENNSYLVANIA: Temperatures generally normal. Precipitation above normal, with most of the rain in thunderstorms on the 20th and 21st. A few storms on the 21st dumped over 5.00 in. of rain in the south central mountains triggering flash floods.

Days suitable: 4.0. Moisture, surplus to adequate. Activities: Planting soybeans; cultivating and side-dressing corn; spraying; transplanting tobacco; making hay and haylage; top-dressing alfalfa; combining barley and making straw; green chopping; picking strawberries; and trimming pastures. Tobacco transplanting virtually complete, same as last year. Soybeans 84% planted, last year 90% complete. Barley 36% headed, 43% turning yellow, 16% ripe and 5% harvested, last year 24% headed, 61% turning yellow, 14% ripe and less than 5% harvested. Wheat 66% headed, 25% turning yellow and less than 5% ripe, last year 70% headed, 28% turning yellow, and less than 5% ripe. Oats 29% headed and 6% turning yellow, last year 70% headed and less than 5% turning yellow. Average corn height 11 in., last year 16 in. First cutting alfalfa 73% complete, last year 64% complete. First cutting clo-tim 59% complete, last year 43% complete. Quality of hay made good to fair. Feed from pastures mostly average.

PUERTO RICO: Island average rainfall 0.75 or 0.63 in. below normal. Highest weekly total 3.25 in. Highest 24-hour total 3.10 in. Temperature averaged about 85 to 82° on Coasts and 77 to 76° Interior Divisions. Mean station temperatures ranged from 86.1 to 68.0°. Extremes 97 and 57°.

SOUTH CAROLINA: Scattered showers, mostly light with a few downpours. Temperatures above normal end of week (upper 90's).

Days available for outside work: 5.7. Corn fair to good. Cotton fair to good; 35% squaring, 87 year ago, 86 average. No cotton setting bolls, 16% last year, 16 average. Soybeans planting slowed by dry weather, 83% planted, 85% last year, 89% average. Tobacco diseases widespread; conditions declined to fair. Wheat 76% harvested, behind 85% last year, 88% average. Harvesting variable yields. Peach 15% harvested, 33% last year, 23% average; condition still poor to fair. Tomatoes increased harvest to 10%; conditions improved to good.

SOUTH DAKOTA: Average temperatures 4 to 10° above normal. Extremes: 37° and 99°. Rainfall 2.00 to 4.00 in. southeast, 3.00 in. central, 1.50 in. or less rest of State.

Days suitable for fieldwork: 4.0. Spring crop plantings virtually complete. Flooded and washed-out fields widespread southeast. Spring small grains and corn a week to 10 days behind normal. Alfalfa stands very good throughout State. Winter wheat stands rated good to excellent. Winter wheat 86% headed, 1982 94%, average 98%. Sorghum 94% planted, 1982 81%, average 96%. Spring wheat 31% headed, 1982 31%, average 59%. Corn height 8 in., 1982 9 in., average 14 in. First cutting alfalfa 53%, 1982 64%, average 71%.

TENNESSEE: Temperature averages were mainly in the 70's, slightly below normal. Most sections of the State received rain but amounts were generally less than 0.50 in.

Days suitable for fieldwork: 4.8. Soil moisture: 15% short, 76% adequate, 9% surplus. Corn tasseling 3%, 1982 15%, average 11%. Cotton squaring 8%, 1982 53%, average 33%. Soybeans planted 72%, 1982 86%, average 84%. Tobacco set 96%, 1982 99%, average 100%. Wheat ripe 86%, 198 96%, average 95%. Wheat harvested 29%, 1982 67%, average 72%. Alfalfa hay 2nd cuttings 30%, 1982 64%, average 61%. Pastures and livestock good.

TEXAS: Cloudy skies, widely scattered thunderstorms East Texas, along Upper Coast. Later part of week, mostly fair. Temperatures were normal to near normal over entire State.

Crops: Dryer, warmer conditions returned allowing producers to make good progress with planting, harvesting operations. Some showers fell but were not enough to delay fieldwork or relieve conditions in areas that have become moisture stressed. Warmer temperatures aided growth of cotton, sorghum, corn. Cotton planting made good progress. Plains, where planting is active, excellent progress was made. Some limited replanting High Plains, completed. Other areas completing planting, earlier planted fields making good growth. Build-up of thrips, weevils reported. In Central, South Texas crop progressing well. June 23rd first bale of 1983 U.S. cotton crop classified at Hargill, Texas. Sorghum planting made good progress. Planting should wrap up soon. Crop was matured well in South Texas, Rio Grande Valley where harvest getting underway. Corn continues to progress well, dryland fields in need of additional moisture. Irrigation continues at steady rate. Small grain harvest made good progress. Warmer conditions have aided maturing Plains. Yields throughout the State continue to vary, overall yield good. Central, South Texas, harvest winding down. Root rot, rust, moasic continue to plague producers, damage minimal. Currently wheat condition is 85% of normal compared with 67% a year ago. By week's end 23% excellent; 49% good; 24% fair;

and 4% poor. Peanut planting in full swing Central, South Central Texas. Earlier planted fields making good growth. South Texas fields in good condition, good stands established. Rice making good growth under hot, humid condition. The crop has developed slowly, should progress rapidly if warming continues.

Cotton planted 98%, 1982 98%, 99% average; cotton squaring 11%, 1982 16%, 25% average; cotton setting bolls 5%, 1982 10%, 13% average; cotton open bolls 0%, 1982 1%, 0% average. Rice headed 5%, 1982 52%, 46% average; rice turning color 0%, 1982 9%, average 3%. Sorghum planted all purposes 93%, 93% 1982, 97% average; sorghum headed 52%, 57% 1982, 56% average; sorghum turning color 28%, 37% 1982, 35% average; sorghum mature 1%, 9% 1982, 11% average. Wheat turning color 93%, 97% 1982, 99% average; wheat harvested for grain 49%, 46% 1982, 60% average. Oats harvested for grain 74%, 61% 1982, 82% average. Peanuts planted 80%, 74% 1982, 83% average. Soybeans planted 74%, 65% 1982, 80% average. Sunflowers planted 84%, 58% 1982, 77% average.

Commercial vegetables: Rio Grande Valley, harvest of watermelons, okra, tomatoes, squash active. San Antonio-Winter Garden area, producers active harvesting cucumbers for pickles, onions, cantaloups. Irrigation continues. East Texas, tomatoes matured rapidly, harvest underway. Some cucumbers, potatoes also being harvested. Watermelon planting continues. Coastal Bend, watermelons continue to develop well. Cucumber, tomato harvest underway, fruit matured rapidly under warmer temperatures. Trans-Pecos region, onion harvest continues. Cantaloup, pepper, cabbage stands making good growth. Plains, onions, potatoes continue to show good growth. Knox City area, harvest of onions, potatoes underway. Peach harvest continues, moving northward at a rapid pace. Warmer temperatures have aided maturing. Pecans developing rapidly, setting nuts. Moisture levels critical. Casebearer problems remain light.

Range and livestock: Range, pasture condition made little progress. Growth of grasses showed most areas, except portions of Central Texas. Grazing limited, feeding has picked up pace. Livestock remain in good condition. Hay cutting active, yields reduced by lack of moisture.

UTAH: Isolated thunderstorms few locations. Temperatures generally above normal ranging 5° above to 3° below.

Dam washout in central area flooded thousands of acres farmland. Tens of thousands more threatened by inoperable irrigation systems. Many tons baled hay washed away by flood. Hay and grain fields covered with mud and debris. Fieldwork active all week, Statewide. Hay harvest and irrigation system repair major activities. First crop hay late, weedy and light. Harvest 57% complete. All crop progress continued behind normal. Below normal yields expected for all field crops. Near full production fruit expected. Outlook much better than last year.

VIRGINIA: Typical summertime weather with scattered showers and thunderstorms producing Statewide rainfall except last two days. Heavy, slow moving storms yielded high local rain amounts 19th through 21st. Temperatures slightly below normal, humidity up.

Early week rains and warm temperatures all week kept the general condition of crops good. Topsoil moisture rated 7% short, 79% adequate and 14% surplus. Days suitable for fieldwork were 3.7. Corn condition rated good to excellent but, because of below normal germination, some fields spotty. Cultivating and sprayind continue. Corn silked 6%, 14% last year and 6% average. Soybeans 69% planted, 72% 1982 and 75% average, condition rated good to excellent. Tobacco condition rated good. Some irrigating in central region. Still setting in southwest. Cultivating continues. Premature flowering southeast. Peanut condition rated excellent. Spraying herbicides and fungicides. Applying land plaster. Small grain harvest continues.

WASHINGTON: A weak frontal system followed by moist unstable air brought significant rain to west and light amounts to east over the weekend. Although temperatures remained below normals, high pressure produced dryer and warmer fair weather during midperiod. But the high was replaced by a complex low pressure system late 22nd and the remainder of the week was cool and wet.

Small grains average to above average condition. Fall grains fared better than spring grains in Whitman County. Hail, wind damage reported in parts of Garfield County. Growers fertilizing for fall planting and preparing for early harvest. Winter barley harvest started. Wheat harvest two weeks away. Peas and lentils average to below average condition. Haying continues. Cherry harvest yielding large volume, excellent quality, nearing completion some areas. Cover spraying continues. Apple and pear orchard thinning in progress. West of the Cascades, strawberry picking at midpoint and raspberry picking started early. Blueberry harvest in few weeks. Vegetables in good condition. Tomatoes, corn, and cucumbers need warmer weather. Fresh market carrots ready for harvest in few weeks. Broccoli and cauliflower progressing well. Lettuce and spinach harvest continuing. Livestock in good condition. Pastures benefited from rain, cool weather. Grass supplies excellent, farmers continuing green-chop. Winter wheat headed 100%, 97% 1982, 92% average.

WEST VIRGINIA: Temperatures averaged above normal. Low 43°, high 93°. Precipitation varied. Below normal in south, near normal in north and east. Heavy showers gave some areas large amounts. Range none to 2.47 in.

Soil moisture adequate to short in western half of State, adequate to surplus in eastern Panhandle area. Days suitable for fieldwork averaged 4.3. Main activities: Hay harvesting, combining and gardening. Small grain crops in good to fair condition. Corn in fair to good condition. Wheat reported 6% pre-headed, 75% headed, 12% ripe and 7% harvested; 2%, 76%, 15% and 7% in 1982. Barley was 42% headed, 39% ripe and 19% harvested; 1% pre-headed, 43% headed, 33% ripe and 23% harvested in 1982. Oats were 60% pre-headed, 33% headed, 5% ripe and 2% harvested; 35% pre-headed, 61% headed and 4% ripe in 1982. Corn was 99% planted and 94% emerged; 98% and 95% in 1982. Tobacco was in fair to good condition with 86% set; 85% in 1982. Pasture and hay was in good to fair condition. The first cutting of hay was 62% complete: 49% in 1982. Second cutting was 4% complete; 5% in 1982. Fruit was in fair condition.

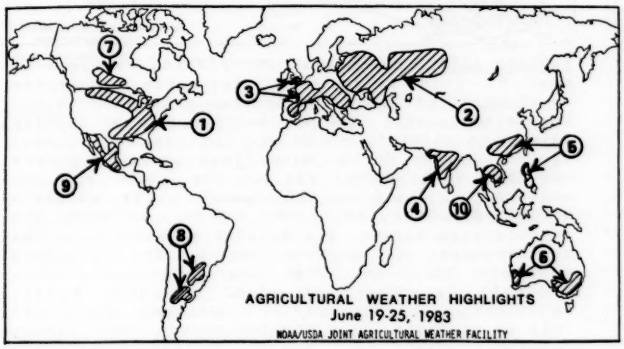
WISCONSIN: A summertime patter dominated weather. Daytime temperatures in the 80's and low 90's occurred early in the week, with upper 80 to upper 90° readings by the weekend. Nighttime lows were generally in the 40's and 50's at the beginning of the week and climbed into the 60's and 70's later in the week. A squall line of heavy thunderstorms marched across north late 21st. Scattered thunderstorms

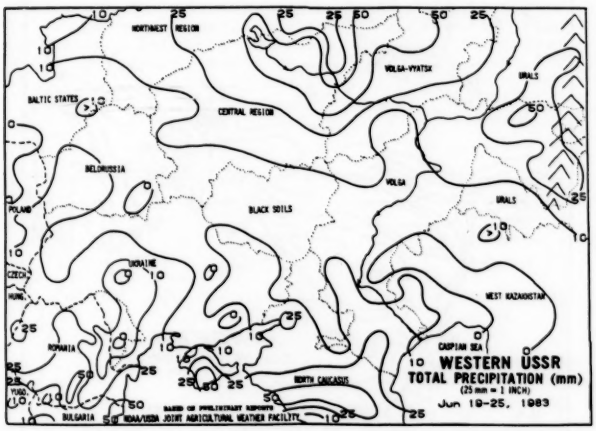
(continued on p. 9)

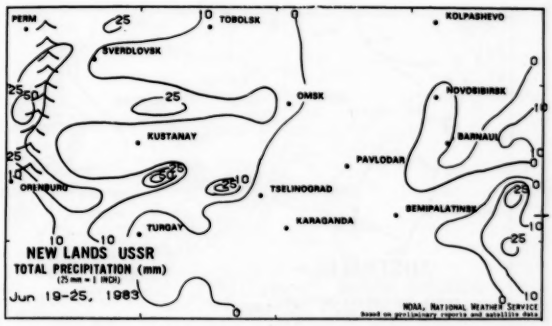
International Weather and Crop Summary

June 19 to 25

1. UNITED STATES ... Warm, dry weather over most of the Corn Belt allows completion of planting and rapid development of crops. Dry pockets in Ohio and South Carolina slow planting and emergence of soybeans, while rains along the gulf coast hamper harvesting of grains and planting of double-crop soybeans. Persistent dryness stresses Montana wheat.
2. USSR... Unseasonably cold air covers Western USSR with scattered frost possibly damaging crops in the north. Further east, hot, dry weather stresses spring wheat in in the New Lands.
3. EUROPE ... Showers benefit crops over much of the region.
4. SOUTH ASIA ... Torrential downpours cause flooding in western India. Widespread rains in central crop areas allow planting to begin.
5. EASTERN ASIA ... Heavy rains continue to slow development of early rice and delay late rice planting. Beneficial rain falls in southern crop areas of the North China Plain.
6. AUSTRALIA ... Showers in west aid planting and emergence of winter wheat, but more rain is needed. Heavy showers disrupt wheat planting in southeastern Queensland. Conditions are generally dry elsewhere in wheat belt.
7. CANADA ... Abundant rains improve growing conditions in northwestern Prairie crop areas, but conditions are too dry in the southwest for the upcoming reproductive cycle. Showers maintain favorable soil moisture in east.
8. SOUTH AMERICA ... Dry weather aids coffee/citrus harvest in Sao Paulo and vicinity, but heavy rain again delays wheat planting in Rio Grande do Sul. Dry, seasonably cool weather aids late soybean harvest and wheat planting in Argentina.
9. MEXICO ... Light rain relieves some stress on corn and beans in southern Plateau. Dryness continues over the North, aiding the harvest but deteriorating immature crops. Rains continue over the South and extend into central America.
10. SOUTHEAST ASIA ... Widespread monsoon activity returns to Thailand, benefiting corn and rice in the vegetative stage. Substantial rain in the Philippines helps to ease drought conditions.

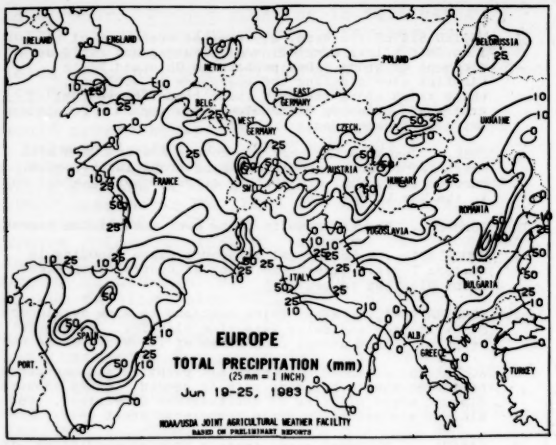






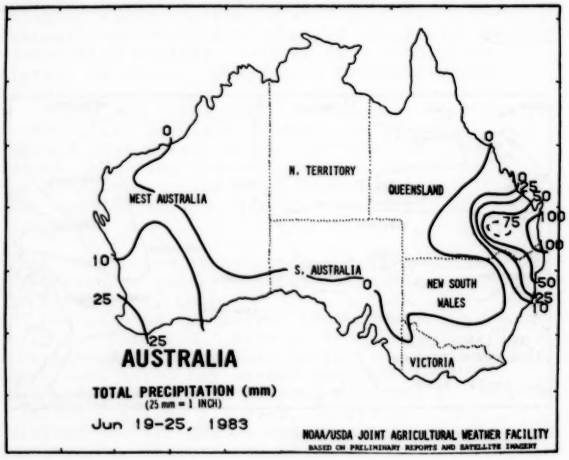
USSR...Widespread precipitation covered most of Western USSR, with heaviest amounts of moisture (25 to 50 mm) falling on crops in the extreme north as well as those in the southern portion of the region. An arctic air outbreak during midweek caused unseasonably cold air to push southward. Near-freezing temperatures, around 2°C, covered the central Volga Valley, the Volga Vyatsk, and the Central Region on some days, with the lowest temperature of 0°C reported at one location in each area. Spotty patches of frost may have damaged crops grown in these areas, especially winter rye and spring grains which are in the critical heading stage. Overall, the cold weather will slow crop development, particularly summer crops which require warmer weather for growth.

In the New Lands, hot, dry weather ahead of an eastward-moving cold front covered most spring grain areas during the week. Maximum temperatures rose to around 35°C by midweek over the central portion of the region. Significant rains fell at some locations as the front passed through western crop areas. However, the front weakened as it moved eastward, so little, if any, precipitation covered the eastern half. The hot, dry weather increased evaporation rates, stressing spring grains in the vegetative stage. In cotton areas of south-central USSR, spotty showers and thunderstorms continued to cover cotton areas in eastern Uzbekistan and northern Tadzikistan. The locally heavy rains could have produced washouts in some areas.

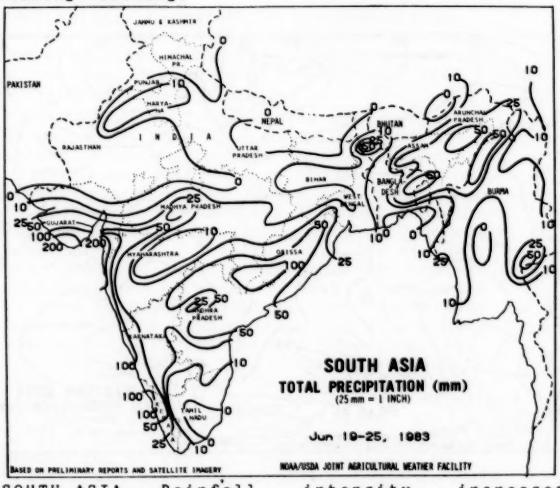


EUROPE...Wet weather returned to crop areas of southern England and France late in the week, benefiting both winter and summer crops. Generally dry weather covered crops in East Germany and northern Poland where soil moisture supplies are adequate. Showers continued to benefit summer crops in southeastern Europe, but some delays in the winter grain harvest may have resulted. In addition, localized heavy showers in southern Romania may have caused flooding in some areas. Further west, showers also benefited crops in Italy and parts of Spain. Temperatures were below normal in most crop areas, except the northwest, where temperatures were above normal.

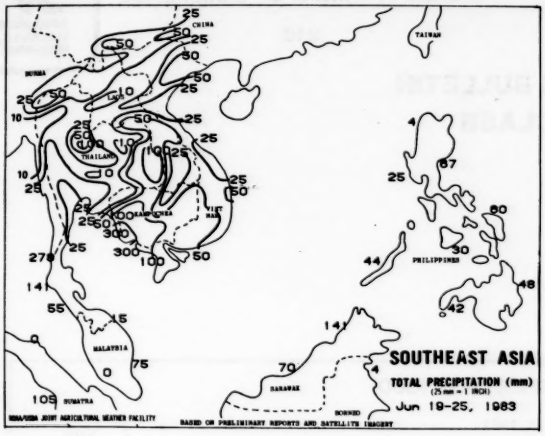
EASTERN ASIA...Persistent heavy rains remained in most of China's southern rice area, hampering development of early and intermediate rice in the vegetative stage. The wet weather is also slowing late rice planting which usually begins in June. Weather in the North China Plain showed a marked contrast with heavy rain in the south and dry weather in Shandong and Hebei. The moisture benefited cotton, corn, and soybeans entering the reproductive stage. Dry weather extended into the northeastern corn/soybean region, but favorable moisture supplies exist from previous rains. Moderate to heavy rain fell in South Korea, benefiting the rice area. Widespread heavy rain fell in southern Japan for the second week, likely causing flooding.


AUSTRALIA
TOTAL PRECIPITATION (mm)
(25 mm = 1 INCH)
Jun 19-25, 1983
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
BASED ON PRELIMINARY REPORTS AND SATELLITE IMAGERY

AUSTRALIA...Substantial rains fell over crop areas of Western Australia, and locally heavy showers disrupted fieldwork in southeastern Queensland. Recent showers in the west improved topsoil conditions for planting and emergence of winter wheat, although rainfall was still below average. The success of the western crop, usually accounting for about 30 percent of the total crop, will depend largely on a more seasonal pattern of winter rains, since early-season rains thus far have been below normal. Minimal rain fell over crop areas of South Australia, Victoria, and most of New South Wales where planting should be nearly completed. However, heavy rain fell again in extreme northern New South Wales and especially in southeastern Queensland. This excessive wetness further delayed winter wheat planting.

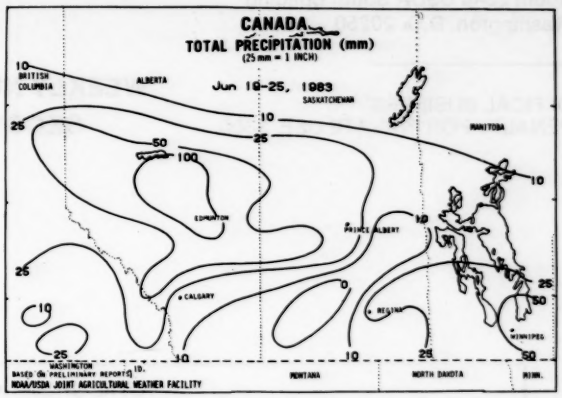

SOUTH ASIA
TOTAL PRECIPITATION (mm)
(25 mm = 1 INCH)
Jun 19-25, 1983
BASED ON PRELIMINARY REPORTS AND SATELLITE IMAGERY
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY

SOUTH ASIA...Rainfall intensity increased substantially over western and central peninsular India this week, while the extreme southeast was virtually dry. Very heavy rains (200 mm) during the first few days of the week inundated coastal areas of Gujarat, causing severe flooding. Cotton and groundnuts in the area are normally planted in July so no crop damage resulted. Heavy rain fell on the west coast and later in the week extended further inland over the peninsular provinces as monsoon activity became more widely developed. Precipitation this month had been relatively light and scattered with seasonal accumulations 2-3 weeks behind normal. The previous lack of significant moisture has delayed cotton, groundnut, and autumn rice planting. However, the recent widespread rains have allowed planting to begin, but continued monsoon rains will be essential for normal crop development.



SOUTHEAST ASIA...Rainfall increased this week as central and eastern Thailand, Kampuchea, and Vietnam all received substantial moisture. This precipitation benefited rice and corn in the vegetative stage in Thailand following a break in monsoon activity last week. Northern Thailand was relatively dry, but previous rains have added generously to irrigation supplies. Extensive rain fell in the southern half of the Philippines while scattered showers brought moisture to the northern islands. Precipitation has relieved drought conditions somewhat in the last few weeks; however, the soil moisture supply is still low due to the prolonged dry period. Dry weather in May and early June delayed upland rice planting, which should now be underway. Additional rain is needed to supplement soil moisture reserves and irrigation supplies for the lowland rice crop which is normally being planted at this time.

MEXICO...Light rains falling across the southern Plateau corn and bean belt helped relieve some crop stress, but much more is needed to bring soil moisture up to optimum. Heavy rains drenched the southern mountains and parts of Central America. In contrast, most of the north continued quite dry. Light showers dotted small parts of the northwestern mountains. Rainfed, immature crops, orchards, and pastures are probably critically stressed in parts of the northeast, especially since seasonably hot weather has begun.



CANADA...Abundant rains (in excess of 50 mm) fell over the northern crop areas of Alberta and the extreme northwestern spring wheat areas of Saskatchewan. Weekly rainfall exceeded 100 mm in the vicinity of Edmunton, saturating the topsoils. In general, the moisture replenished soils which were becoming too dry for vigorous crop growth in the northwestern portion of the Prairie grain belt, but local downpours may have been excessive. Above-average rainfall amounts also covered crop areas of Manitoba and portions of eastern Saskatchewan, extending to Regina. Only light showers fell over southwestern Saskatchewan and southeastern Alberta. Dry soils in southwestern Saskatchewan are stressing crops which are now in the vegetative stage. Grain and oilseed crops are rated fair to good throughout the Prairie Provinces, but moisture is needed soon in southwestern crop areas since the spring-sown crops are nearing the moisture-sensitive reproductive stage.

SOUTH AMERICA
TOTAL PRECIPITATION (mm)
(25 mm = 1 INCH)
Jun 19-25, 1983
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
BASED ON PRELIMINARY REPORTS AND SATELLITE IMAGERY

SOUTH AMERICA...Dry weather for the second consecutive week improved harvesting conditions for coffee and citrus in Sao Paulo and adjacent states, following the heavy rains which disrupted early harvesting. Heavy rains fell again in Rio Grande do Sul, causing additional delays in wheat planting. Excessive moisture continues to aggravate agricultural activities of southern Brazil. Temperatures averaged above normal for the week, and minimum temperatures stayed well above freezing except for isolated areas in the south. In Argentina, mostly dry weather aided the

(continued on p. 9)

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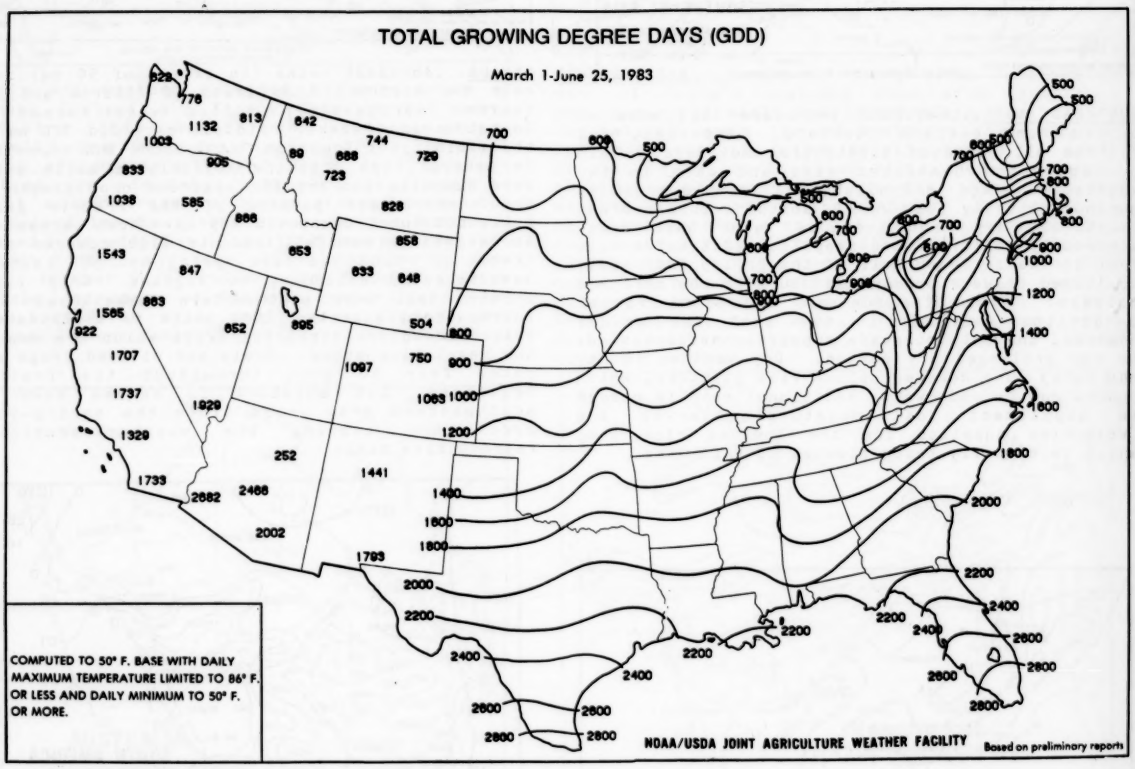
TOTAL GROWING DEGREE DAYS (GDD)
March 1-June 25, 1983
COMPUTED TO 50° F. BASE WITH DAILY MAXIMUM TEMPERATURE LIMITED TO 86° F. OR LESS AND DAILY MINIMUM TO 50° F. OR MORE.
NOAA/USDA JOINT AGRICULTURE WEATHER FACILITY
Based on preliminary reports

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